IDEALPLUSING®

DC-DC Converter Isolated

Selection Guide

GUANGZHOU IDEALPLUSING INFORMATION TECHNOLOGY CO., LTD

www.idealplusing.com www.idealpowersupply.com

Catalogue

- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		7000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				
	Approx. 90g				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Rated Value**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	5VDC	4.5-9VDC	48VDC	36-72VDC
	12VDC	9-18VDC	110VDC	66-160VDC
	24VDC	18-36VDC	300VDC	400-400VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate		10	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DDE10-xS03	x=5(4.5-9 =12 (9-18) =18(9-36) =24(18-36) =36(18-72) =48(36-72) =110(66-160) =300(200-400	3.3	3.03	83	DDE10-xS03	DDE120-xS05	DDE10-xS03J
DDE20-xS12		12	1.66	86	DDE20-xS12	DDE110-xSog	DDE20-xS12J
DDE30-xS28		28	1.07	88	DDE30-xS28	DDE100-xS15	DDE30-xS28J
DDE40-xS05		5	8	84	DDE40-xS05	DDE90-xS12	DDE40-xS05J
DDE50-xS36		36	1.38	89	DDE50-xS36	DDE80-xS48	DDE50-xS36J
DDE60-xD12		±12	2.5/2.5	86	DDE60-xD12	DDF7O-xD05	DDE60-xD12J
DDE70-xD24		±24	2.9/2.9	88	DDE70-xD24	DDE60-xD36	DDE70-xD24
DDE80-xS05		5	16	84	DDE80-xS05	DDE50-xS09	DDE80-x505J
DDE90-xS12		12	7.5	85	DDE90-xS12	DDE40-xS15	DDE90-xS12J
DDE100-xS24		24	4.16	88	DDE100-xS24	DDE30-xS36	DDE100-xS24J
DDE110-xS28		28	3.92	89	DDE110-xS28	DDE20-xS72	DDE110-xS28J
DDE120-xD05		±5	12/12	84	DDE120-xD05	DDE10-xD09	DDE120-xD05J
DDE110-xD12		±12	4.5/4.5	86	DDE110-xD12	DDE20-xD27	DDE100-xD12J
DDE100-xD15		±15	3.3/3.3	86	DDE100-xD15	DDE30-xD36	DDE90-xD15J
DDE90-xD24		±24	1.8/1.8	88	DDE90-xD24	DDE40-xD48	DDE80-xD24J
DDE80-xE0505		5/5	8/8	84	DDE80-xE0505	DDE50-xE0509	DDE70-xE0505J
DDE70-xE0512		5/12	7/2.91	84	DDE70-xE0512	DDE60-xE1224	DDE60-xE0512J
DDE60-xE0515		5/15	6/2	85	DDE60-xE0515	DDE70-xE2448	DDE50-xE0515J
DDE50-xS0S		5	10	83	DDE50-xS05	DDE80-xS12	DDE40-xS05J
DDE40-xS28		28	1.4	85	DDE40-xS28	DDE90-xS24	DDE30-xS28J
DDE30-xS48		48	0.62	90	DDE30-xS48	DDE100-xS36	DDE20-xS48J
DDE20-xD05		±5	2/2	84	DDE20-xD05	DDE110-xD12	DDE10-xD05J
DDE10-xD15		±15	0.33/0.33	85	DDE10-xD15	DDE120-xD24	DDE20-xD15J
DDE20-xE0505		5/5	2/2	83	DDE20-xE0505	DDE110-xE0512	DDE30-xE0505J
DDE30-xE0915		9/15	1.6/1	84	DDE30-xE1905	DDE100-xE1236	DD40-xE0915J
DDE40-xE1524		15/24	1.3/0.83	86	DDE40-xE1524	DDE90-xE3648	DDE50-xE1524J
DDE50-xS12		12	4.16	86	DDE50-xS12	DDE80-xS09	DDE60-xS12J
DDE60-xS24		24	2.5	88	DDE60-xS24	DDE70-xS18	DDE7O-xS24J
DDE70-xS48		48	1.45	90	DDE70-xS48	DDE60-xS36	DDE80-xS48J
DDE80-xS24	Self-naming models are available	24	3.33	88	DDE80-xS24	DDE50-xS25	DDE90-xS24J
DDE90-xS28		28	3.2	89	DDE90-xS28	DDE40-xS36	DDE100-xS28J
DDE100-xS48		48	2.08	91	DDE100-xS48	DDE30-xS72	DDE110-xS48J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

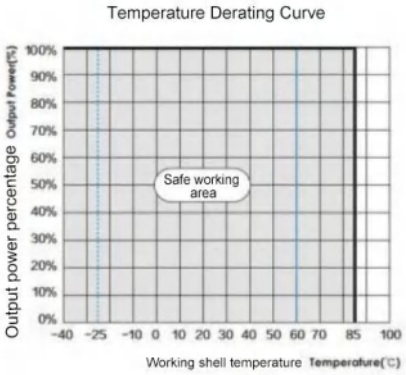
Using Attentions

■Modules can cause irreversible damage in a prolonged overload condition;

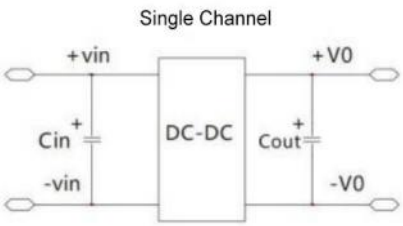
■The module will cause irreversible damage when the maximum input voltage range is exceeded;

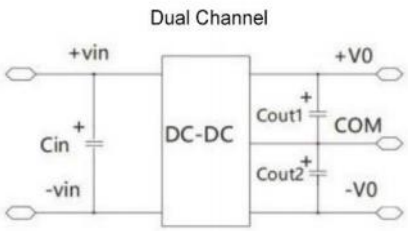
■Product specifications are subject to change without prior notice, for details, please pay attention to our official website or contact our technical staff.

Operating Characterstic Curve



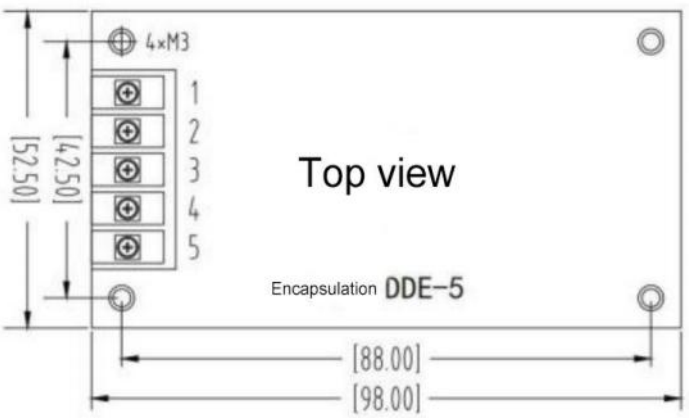
Recommend Circuit

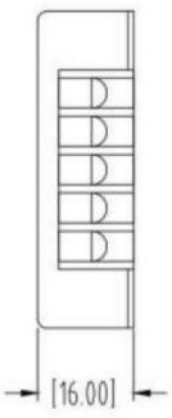




- Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended
- If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure &Installation Method

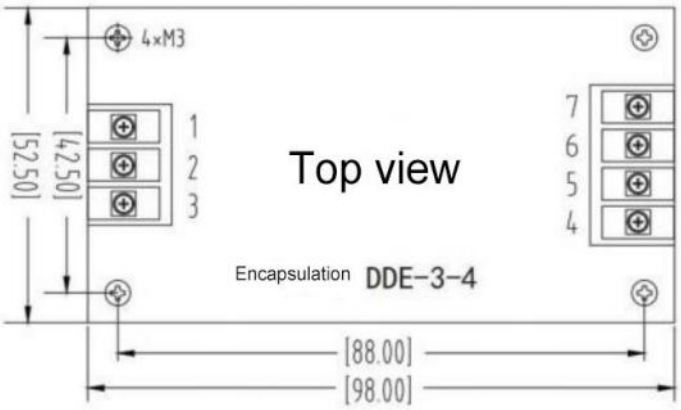




The bottom surface is the heat dissipation surface
Unit size is millimeters

ALL DIMENSIONS IN MM

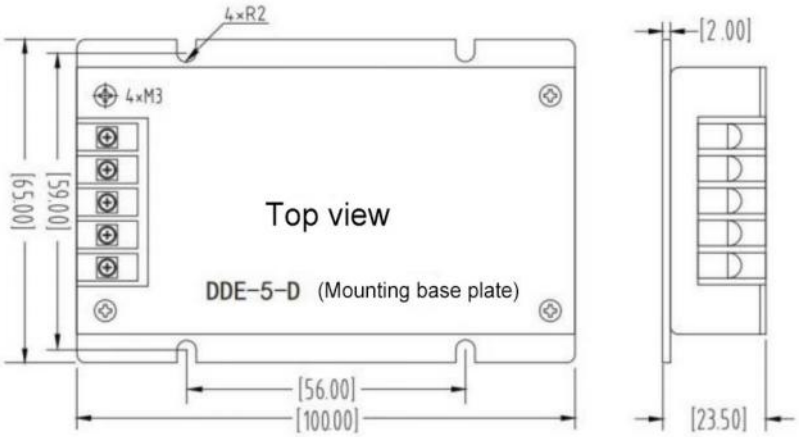
PIN	SING
1	-Vin
2	+Vin
3	REM
4	+Vo
5	-Vo



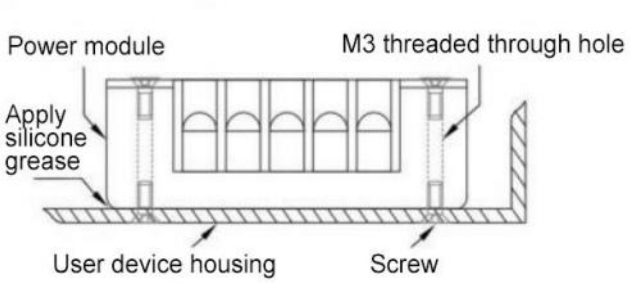
The bottom surface is the heat dissipation surface
Unit size is millimeters

ALL DIMENSIONS IN MM

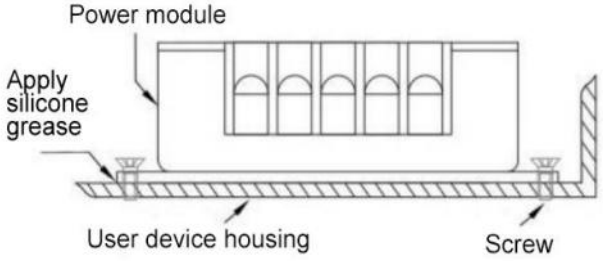
PIN	SING	DOU
1	-Vin	-Vin
2	NC	NC
3	+Vin	+Vin
4	+Vo	+Vo1
5	+Vo	-Vo1
6	-Vo	+Vo2
7	-Vo	-Vo2



Conventional installation method



Horseshoe hole package installation method



- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
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CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		7000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Rated Value**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	110VDC	66-160VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-900VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

输出特性/OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate		30	200	300	KHz

环境特性/EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionGuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DDF50-xS05	x=12 (9-18) =18 (9-36) =24(18-36) =36(18-72) =48 (36-72) =110(66-160) =300 (200-400) =600(400-800)	5	10	84	DDF100-xS05	DDF50-xS13.8	DDF150-xS05J
DDF60-xS28		28	2.14	85	DDF110-xS09	DDF60-xS22	DDF200-xS09J
DDF70-xS12		12	5.83	86	DDF300-xS12	DDF70-xS25	DDF300-xS12J
DDF80-xS15		15	5.33	87	DDF290-xS15	DDF80-xS28	DDF290-xS15J
DDF90-xS24		24	3.75	88	DDF280-xS24	DDF90-xS36	DDF280-xS24J
DDF100-xS48		48	2.08	88	DDF270-xS48	DDF100-xS45	DDF270-xS48
DDF110-xD05		±5	10/10	84	DDF260-xD05	DDF110-xD09	DDF260-xD05J
DDF120-xD12		±12	5/5	85	DDF250-xD12	DDF120-xD15	DDF250-xD12J
DDF130-xD24		±24	2.7/2.7	87	DDF240-xD24	DDF130-xD48	DDF240-xD24J
DDF140-xE0512		5/12	14/5.83	85	DDF230-xE0512	DDF140-xE0505	DDF230-xE0512J
DDF150-xE1224		12/24	6.25/3.1	86	DDF220-xE1224	DDF150-xE1212	DDF220-xE1224J
DDF160-xE2424		24/24	3.3/3.3	86	DDF210-xE2424	DDF160-xE1524	DDF210-xE2424J
DDF170-xE051224		5/12/24	12/5/2.5	87	DDF200-xE051224	DDF170-xE121515	DDF200-xE051224J
DDF180-xS05		5	36	85	DDF190-xS05	DDF180-xS09	DDF190-xS05J
DDF190-xS12		12	15.8	85	DDF180-xS12	DDF190-xS15	DDF180-xS12J
DDF200-xS48		48	4.16	88	DDF170-xS48	DDF200-xS36	DDF170-xS48J
DDF210-xD05		±5	20/20	84	DDF160-xD05	DDF210-xD09	DDF160-xD05J
DDF220-xD24		±24	5/5	85	DDF150-xD24	DDF220-xD28	DDF150-xD24
DDF230-xS28		28	8.2	85	DDF140-xS09	DDF230-xS12	DDF140-xS09J
DDF240-xS24		24	10	86	DDF130-xS24	DDF240-xS15	DDF130-xS24J
DDF250-xS48		48	5.2	88	DDF120-xS48	DDF250-xS36	DDF120-xS48J
DDF260-xS12		12	21.6	85	DDF110-xS12	DDF260-xS15	DDF110-xS12J
DDF270-xS24		24	11.2	87	DDF100-xS24	DDF270-xS28	DDF100-xS24
DDF280-xS48		48	5.83	89	DDF90-xS48	DDF280-xS32	DDF90-xS48J
DDF290-xS24	Self-naming models are available	24	12	88	DDF80-xS24	DDF290-xS25	DDF80-xS24J
DDF300-xS28		28	10.7	89	DDF70-xS36	DDF300-xS30	DDF70-xS36
DDF290-xS48		48	6.04	89	DDF60-xS48	DDF290-xS45	DDF60-xS48J
DDF280-xS24		24	11.66	88	DDF50-xS24	DDF280-xS25	DDF50-xS24J
DDF270-xS28		28	9.6	88	DDF60-xS36	DDF270-xS28	DDF60-xS36
DDF260-xS48		48	5.41	90	DDF70-xS48	DDF260-xS32	DDF70-xS48J

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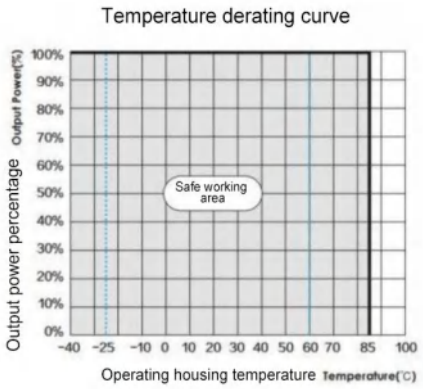
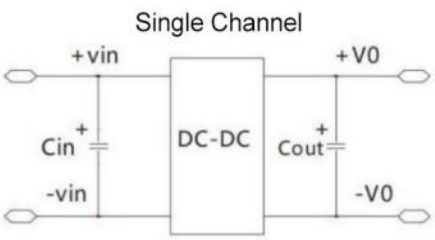
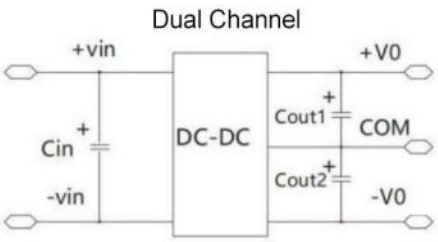
Operating Characterstic Curve



Recommend Circuit





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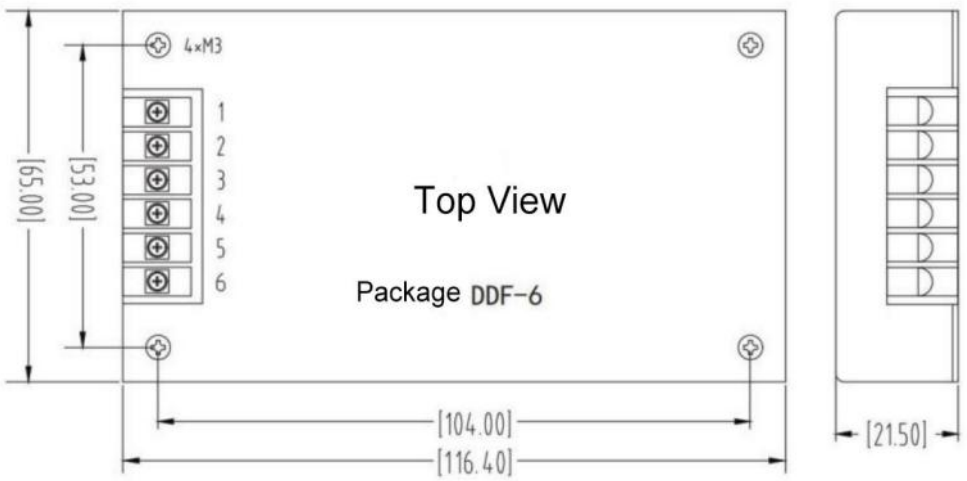
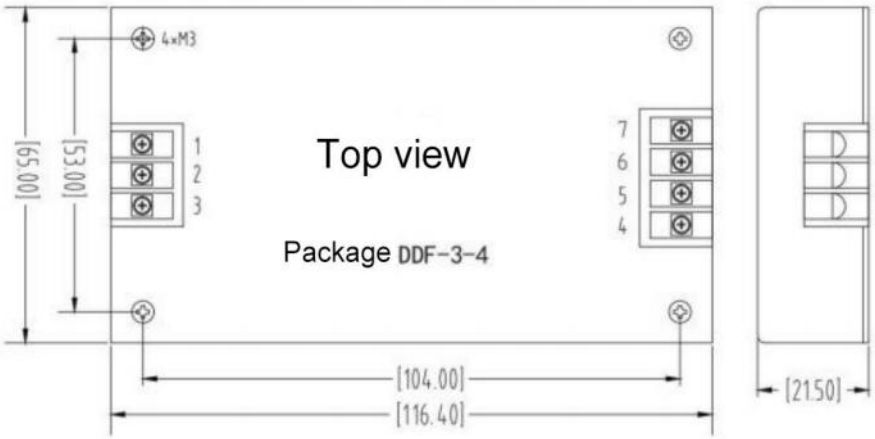
Mechanical Dimensions Figure &Installation Method



Bottom is heat dissipation surface
Unit size is in millimeters

ALL DIMENSIONS IN MM

PIN	SING	DOU
1	-Vin	-Vin
2	+Vin	+Vin
3	-Vo	+Vo1
4	-Vo	-Vo1
5	+Vo	+Vo2
6	+Vo	-Vo2



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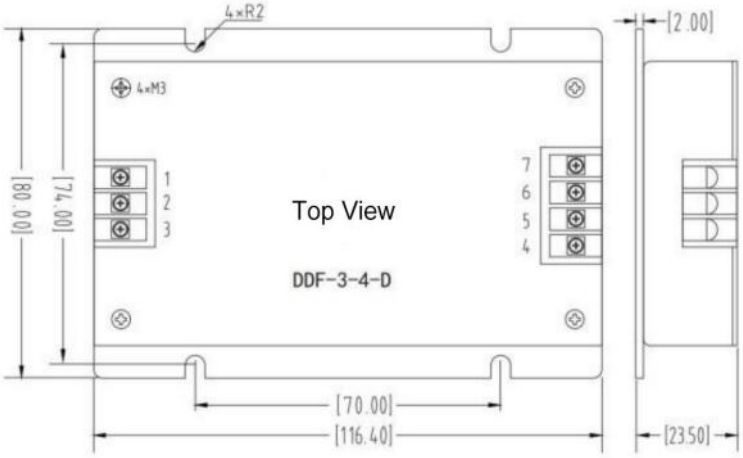
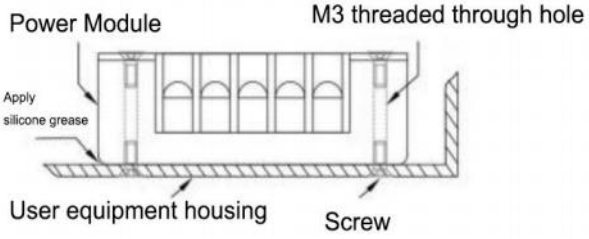
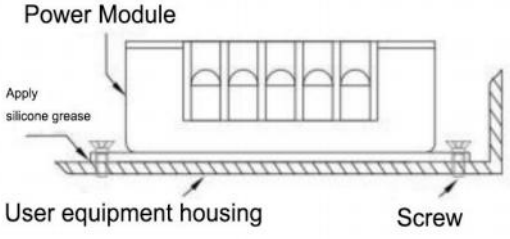
1	REM	REM
2	-Vin	-Vin
3	+Vin	+Vin
4	+Vo	+Vo1
5	-Vo	-Vo1
6	NC	+Vo2
7	NC	-Vo2



Conventional installation method



Horseshoe hole package installation method



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Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Input/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL-HDBK-217F2		$5x10^5$		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Rated Value**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	110VDC	66-160VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-900VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	Unit
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±0.2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±0.5	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate		30	200	300	KHz

环境特性/EnvironmentCharacteristic					
Test Item	**Test Condition**	**Min**	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DDG100-xS05	x=12 (9-18) =18(9-36) =24(18-36) =36(18-72) =48(36-72) =110(66-160) =300(200-400) =600(400-900)	5	20	84	DDG100-xS05	DDG400-xS09	DDG100-xS05J
DDG110-xS12		12	9.16	86	DDG150-xS12	DDG390-xS15	DDG110-xS12
DDG120-xD05		±5	12/12	85	DDG160-xD05	DDG380-xD09	DDG120-xD05J
DDG130-xD24		±24	2.7/2.7	87	DDG170-xD24	DDG370-xD12	DDG130-xD24
DDG140-xE0505		5/5	14/14	84	DDG180-xE0505	DDG360-xE0512	DDG140-xE0505J
DDG150-xE1524		15/24	5/3.12	86	DDG190-xE1524	DDG350-xE1212	DDG150-xE1524J
DDG160-xS05		5	32	84	DDG200-xS09	DDG340-xS12	DDG160-x505J
DDG170-xS28		28	6.07	85	DDG210-xS12	DDG330-xS28	ZDG170-xS09J
DDG180-xS24		24	7.5	88	DDG220-xS24	DDG320-xS36	DDG180-xS24
DDG190-xD12		±12	7.91/7.91	86	DDG230-xD12	DDG310-xD15	DDG190-xD12
DDG200-xD24		±24	4.16/4.16	86	DDG240-xD24	DDG300-xD48	DDG200-xD24J
DDG210-xE0512		5/12	20/9.16	85	DDG250-xE0512	DDG290-xE1224	DDG210-xE0512J
DDG220-xE1524		15/24	7.3/4.6	88	DDG260-xE1524	DDG280-xE1528	DDG220-xE1524J
DDG230-xS12		12	19.16	85	DDG270-xS12	DDG270-xS15	DDG230-xS12J
DDG240-xS24		24	10	86	DDG280-xS24	DDG260-xS28	DDG240-xS24J
DDG250-xD12		±12	10.4/10.4	86	DDG290-xD12	DDG250-xD15	DDG250-xD12J
DDG260-xD24		±24	5.41/5.41	86	DDG300-xD24	DDG240-xD36	DDG260-xD24J
DDG270-xS24		24	11.25	88	DDG310-xS24	DDG230-xS36	DDG270-xS24J
DDG280-xS48		48	5.83	89	DDG320-xS48	DDG220-xS72	DDG280-xS48
DDG290-xS28	Self-naming models are available	28	10.3	88	DDG330-xS36	DDG210-xS24	DDG290-xS36J
DDG300-xS48		48	6.25	88	DDG340-xS48	DDG200-xS30	DDG300-xS48J
DDG400-xS24		24	16.66	88	DDG350-xS24	DDG190-xS28	DDG310-xS24J
DDG500-xS28		28	17.8	89	DDG360-xS36	DDG180-xS30	DDG320-xS36J
DDG400-xS48		48	8.33	89	DDG370-xS48	DDG170-xS50	DDG330-xS48J
DDG300-xS24		24	12.5	88	DDG380-xS24	DDG160-xS28	DDG340-xS24J
DDG200-xS28		28	7.14	89	DDG390-xS36	DDG150-xS32	DDG350-xS36J
DDG100-xS48		48	2.08	90	DDG400-xS48	DDG140-xS45	DDG360-xS48J
DDG150-xS24		24	6.25	89	DDG390-xS24	DDG130-xS28	DDG370-xS24J
DDG200-xS36		36	5.55	89	DDG380-xS36	DDG120-xS32	DDG380-xS36J
DDG620-xS48		48	12.9	90	DDG370-xS48	DDG110-xS55	DDG390-xS48J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

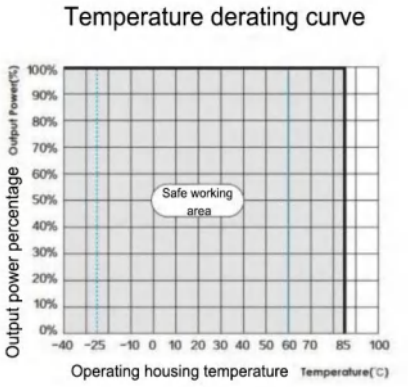
Using Attentions

■Modules can cause irreversible damage in a prolonged overload condition;

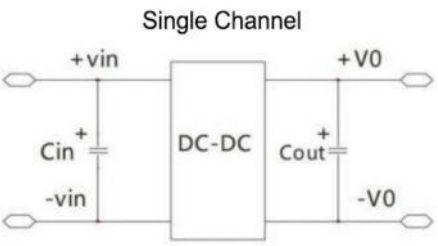
■The module will cause irreversible damage when the maximum input voltage range is exceeded;

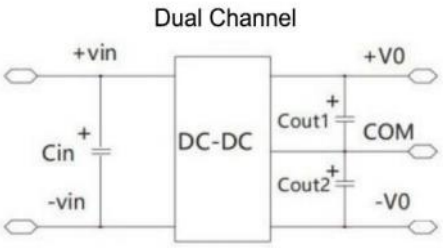
■Product specifications are subject to change without prior notice, for details, please pay attention to our official website or contact our technical staff.

Operating Characterstic Curve



Recommend Circuit





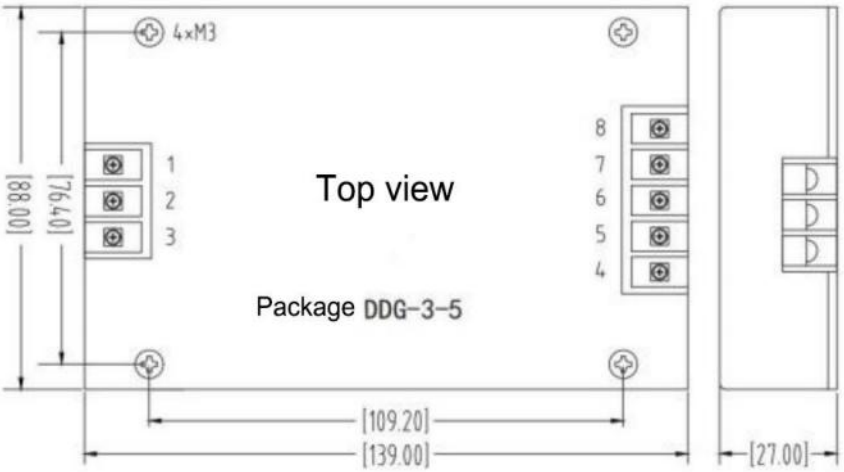
- Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended
- If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure &Installation Method

Bottom is heat dissipation surface
Unit size is in millimeters

ALL DIMENSIONS IN MM

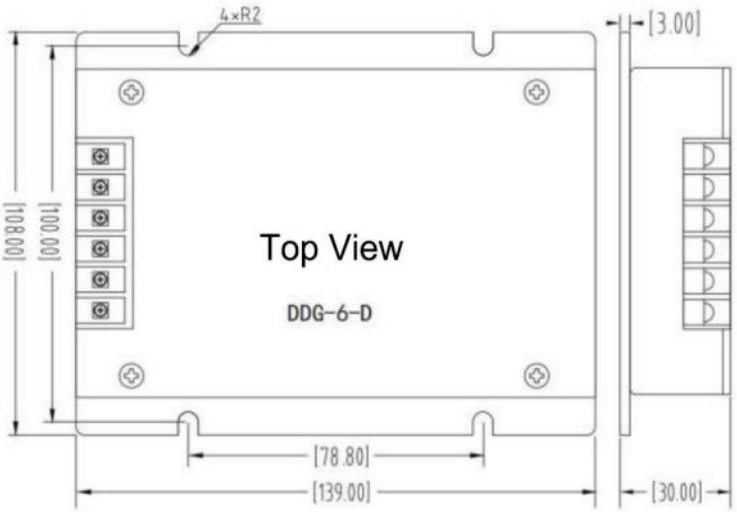
PIN	SING	DOU
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vo	+Vo1
4	+Vo	-Vo1
5	-Vo	+Vo2
6	-Vo	-Vo2



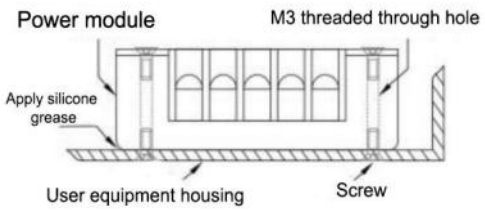
Bottom is heat dissipation surface
Unit size is in millimeters

ALL DIMENSIONS IN MM

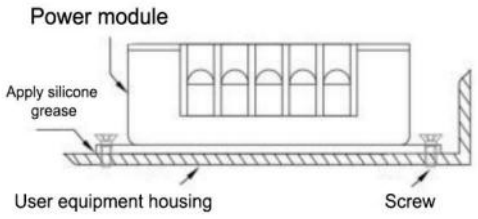
PIN	SING	DOU
1	REM	REM
2	-Vin	-Vin
3	+Vin	+Vin
4	TRIM	+Vo1
5	+Vo	-Vo1
6	+Vo	+Vo2
7	-Vo	-Vo2
8	-Vo	NC



Conventional installation method



Horseshoe hole package installation method



- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL-HDBK-217F2		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Rated Value**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	110VDC	66-160VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-900VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	10	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DDH150-xS05	x =12 (9-18) =18(9-36) =24(18-36) =36(18-72) =48(36-72) =110(66-160) =300(200-400) =600 (400-900)	5	30	84	DDH300-xS05	DDH150-xS09	DDH500-xS05J
DDH160-xS12		12	13.3	86	DDH500-xS12	DDH200-xS18	DDH450-xS12J
DDH170-xS15		15	11.3	87	DDH450-xS15	DDH250-xS36	DDH400-xS15J
DDH180-xS24		24	7.5	88	DDH400-xS24	DDH300-xS48	DDH350-xS24J
DDH190-xD05		±5	19/19	84	DDH350-xD05	DDH350-xD09	DDH300-xD05J
DDH200-xD12		±12	8.33/8.33	85	DDH300-xD12	DDH400-xD24	DDH250-xD12J
DDH210-xD15		±15	7/7	86	DDH250-xD15	DDH450-xD36	DDH200-xD15J
DDH220-xE0505		5/5	22/22	84	DDH200-xE0505	DDH500-xE1212	DDH150-xE0505J
DDH230-xE0512		5/12	23/9.58	84	DDH150-xE0512	DDH450-xE1224	DDH200-xE0512J
DDH240-xE0515		5/15	24/8	85	DDH200-xE0515	DDH400-xE1248	DDH250-xE0515J
DDH250-xE0524		5/24	25/5.2	86	DDH250-xE0524	DDH350-xE2436	DDH300-xE0524J
DDH260-xS12		12	21.66	85	DDH300-xS12	DDH300-xS09	DDH350-xS12J
DDH270-xS15		15	18	**87**	DDH350-xS15	DDH250-xS18	DDH400-xS15J
DDH280-xS24		24	11.66	88	DDH400-xS24	DDH200-xS36	DDH450-xS24J
DDH290-xS28		28	10.35	**88**	DDH450-xS28	DDH150-xS48	DDH500-xS28J
DDH300-xD05		±5	30/30	85	DDH500-xD05	DDH200-xD09	DDH450-xD05J
DDH350-xD12		±12	14.5/14.5	85	DDH450-xD12	DDH250-xD18	DDH400-xD12J
DDH400-xD15		±15	13.3/13.3	85	DDH400-xD15	DDH300-xD28	DDH350-xD15J
DDH450-xD24		±24	9.37/9.37	86	DDH350-xD24	DDH350-xD48	DDH300-xD24J
DDH500-xS12		12	41.66	86	DDH300-xS12	DDH400-xS15	DDH250-xS12J
DDH450-xS28		28	16.07	87	DDH250-xS28	DDH450-xS24	DDH200-xS28J
DDH400-xS15		15	26.66	88	DDH200-xS15	DDH500-xS18	DDH150-xS15J
DDH350-xS28		28	12.5	88	DDH150-xS28	DDH450-xS24	DDH200-xS28J
DDH300-xS48		48	6.25	89	DDH200-xS48	DDH400-xS36	DDH250-xS48J
DDH250-xD12		±12	10.4/10.4	85	DDH250-xD12	DDH350-xD18	DDH300-xD12J
DDH200-xD15		±15	6.66/6.66	87	DDH300-xD15	DDH300-xD28	DDH350-xD15J
DDH150-xD24		±24	3.12/3.12	89	DDH350-xD24	DDH250-xD36	DDH400-xD24J
DDH200-xS24	Self-naming models are available	24	8.33	87	DDH400-xS24	DDH200-xS25	DDH450-xS24J
DDH250-xS36		36	6.94	88	DDH450-xS36	DDH150-xS28	DDH500-xS36J
DDH300-xS48		48	6.25	89	DDH500-xS48	DDH200-xS45	DDH450-xS48J
DDH350-xS24		24	14.5	89	DDH450-xS24	DDH250-xS25	DDH400-xS24J
DDH400-xS28		28	14.2	90	DDH400-xS28	DDH300-xS36	DDH350-xS28J

■All specifications are tested at an ambient temperature of 25℃, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

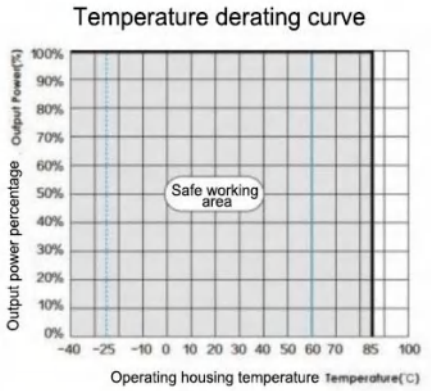
Using Attentions

■Modules can cause irreversible damage in a prolonged overload condition;

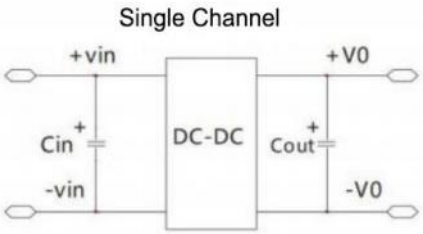
■The module will cause irreversible damage when the maximum input voltage range is exceeded;

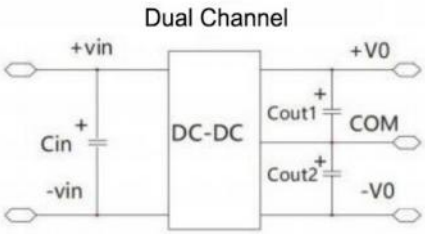
■Product specifications are subject to change without prior notice, for details, please pay attention to our official website or contact our technical staff.

Operating Characterstic Curve



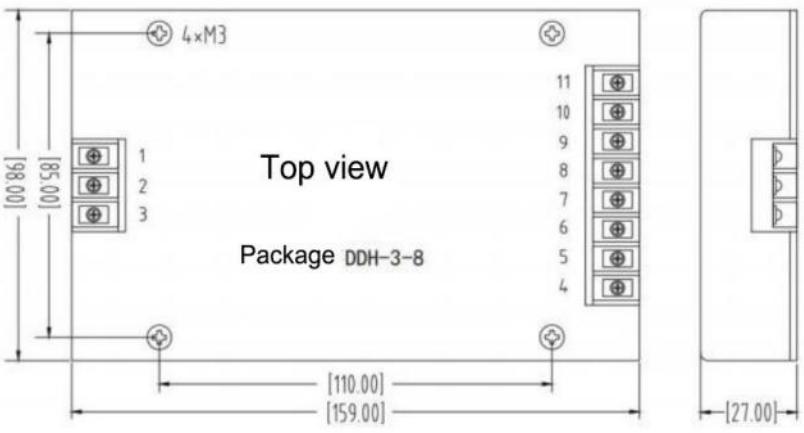
Recommend Circuit





- Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended
- If the module is connected to a digital circuit, add cout, cout1, cout2

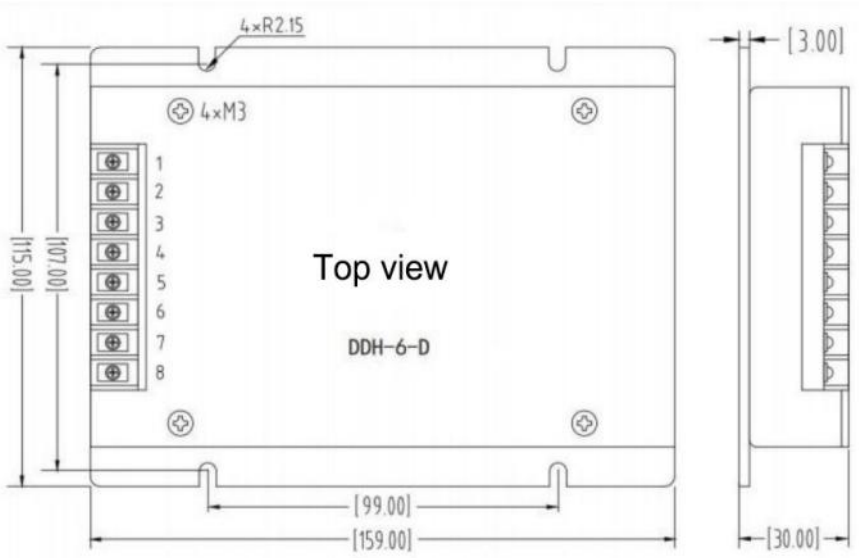
Mechanical Dimensions Figure &Installation Method



Bottom is heat dissipation surface
Unit size is in millimeters

ALL DIMENSIONS IN MM

PIN	SING	DOU	TRI	QUA
1	+Vin	+Vin	+Vin	+Vin
2	NC	NC	NC	NC
3	-Vin	-Vin	-Vin	-Vin
4	+Vo	-Vo1	-Vo1	-Vo1
5	+Vo	NC	+Vo1	+Vo1
6	+Vo	+Vo1	NC	-Vo2
7	+Vo	NC	-Vo2	+Vo2
8	-Vo	NC	+Vo2	-Vo3
9	-Vo	-Vo2	NC	+Vo3
10	-Vo	NC	-Vo3	-Vo4
11	-Vo	+Vo2	+Vo3	+Vo4

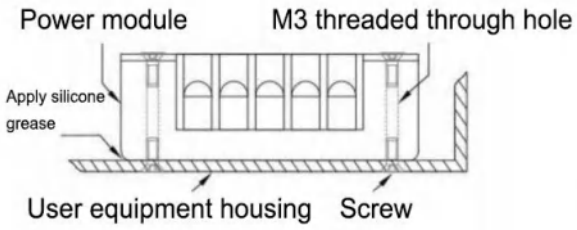


Bottom is heat dissipation surface
Unit size is in millimeters

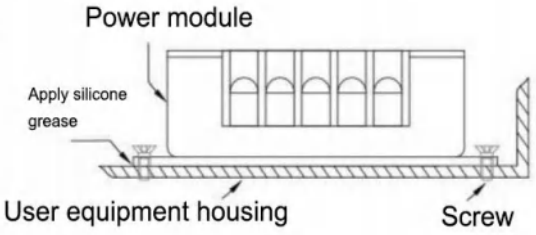
ALL DIMENSIONS IN MM

PIN	SING	DOU
1	-Vin	-Vin
2	-Vin	-Vin
3	+Vin	+Vin
4	+Vin	+Vin
5	+Vo	+Vo1
6	+Vo	-Vo1
7	-Vo	+Vo2
8	-Vo	-Vo2

Conventional installation method



Horseshoe hole package installation method



- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL-HDBK-217F2		$5x10^5$		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Rated Value**
Metallic Material **(4:1)**	18VDC	9-36VDC	36VDC	18-72VDC
Metallic Material **(2:1)**	12VDC	9-18VDC	110VDC	66-160VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-900VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DDL300-xS05	x=12 (9-18) =18 (9-36) =24(18-36) =36(18-72) =48 (36-72) =110(66-160) =300(200-400) =600(400-900))	5	60	84	DDL350-xS05	DDL1000-xS09	DDL300-xS05J
DDL400-xS12		12	33.3	86	DDL400-xS12	DDL900-xS18	DDL400-xS12J
DDL500-xS15		15	33.3	87	DDL500-xS15	DDL800-xS28	DDL500-xS15J
DDL600-xS24		24	25	88	DDL600-xS24	DDL700-xS36	DDL600-xS24J
DDL700-xD05		±5	70/70	84	DDL600-xD05	DDL600-xD18	DDL700-xD05J
DDL800-xD12		±12	33.3/33.3	85	DDL700-xD12	DDL500-xD24	DDL800-xD12J
DDL900-xD15		±15	30/30	86	DDL800-xD15	DDL400-xD48	DDL900-xD15J
DDL1000-xE2828		28/28	17.8/17.8	84	DDL900-xE0505	DDL300-xE1212	DDL1000-xE0505J
DDL900-xE2428		24/28	18.7/16	84	DDL1000-xE0512	DDL400-xE1224	DDL900-xE0512J
DDL800-xE2415		24/15	16.6/26.6	85	DDL900-xE0515	DDL500-xE1248	DDL800-xE0515J
DDL700-xE2824		28/24	12.5/14.5	86	DDL800-xE0524	DDL600-xE2436	DDL700-xE0524J
DDL600-xS12		12	50	85	DDL700-xS12	DDL700-xS09	DDL600-xS12J
DDL500-xS15		15	33.3	86	DDL600-xS15	DDL800-xS18	DDL500-xS15J
DDL400-xS24		24	16.6	88	DDL500-xS24	DDL900-xS20	DDL400-xS24J
DDL300-xS28		28	10.7	89	DDL400-xS28	DDL1000-xS36	DDL300-xS28J
DDL400-xD05		±5	40/40	85	DDL300-xD05	DDL900-xD09	DDL400-xD05J
DDL500-xD12		±12	20.8/20.8	85	DDL400-xD12	DDL800-xD18	DDL500-xD12J
DDL600-xD15		±15	20/20	85	DDL500-xD15	DDL700-xD36	DDL600-xD15J
DDL700-xD24		±24	14.5/14.5	86	DDL600-xD24	DDL600-xD72	DDL700-xD24J
DDL800-xS12		12	66.6	86	DDL700-xS12	DDL500-xS25	DDL800-xS12J
DDL900-xS15		15	60	87	DDL800-xS15	DDL400-xS32	DDL900-xS15J
DDL1000-xS24		24	41.66	88	DDL900-xS24	DDL300-xS48	DDL1000-xS24J
DDL900-xS28		28	32.1	88	DDL1000-xS28	DDL400-xS72	DDL900-xS28J
DDL800-xE241236		24/12/36	12.5/21.6/7.2	84	DDL900-xE051236	DDL400-xE051224	DDL800-xE051236J
DDL700-xE241536		24/15/36	10/15,3/6.38	84	DDL800-xE051536	DDL500-xE052448	DDL700-xE051536J
DDL600-xE122448		12/24/48	16/8.33/41.6	85	DDL700-xE052448	DDL600-xE122448	DDL600-xE052448J
DDL500-xS15		15	33.3	86	DDL600-xS15	DDL700-xS18	DDL500-xS15J
DDL400-xS32		32	12.5	89	DDL500-xS32	DDL800-xS28	DDL400-xS32J
DDL300-xS48		48	6.25	91	DDL400-xS48	DDL900-xS52	DDL300-xS48J
DDL400-xS72		72	5.55	91	DDL300-xS72	DDL1000-xS72	DDL400-xS72J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

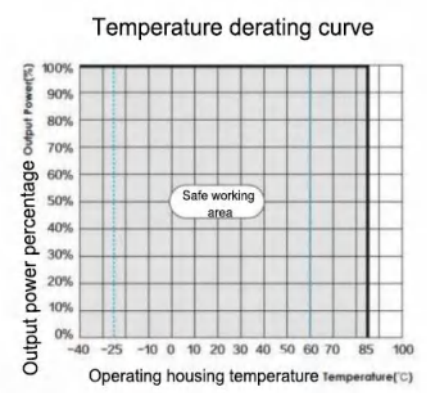
Using Attentions

■Modules can cause irreversible damage in a prolonged overload condition;

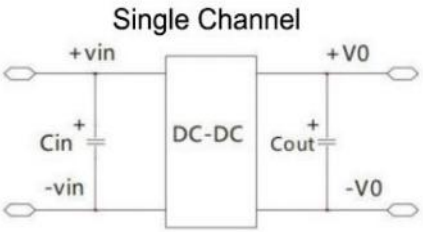
■The module will cause irreversible damage when the maximum input voltage range is exceeded;

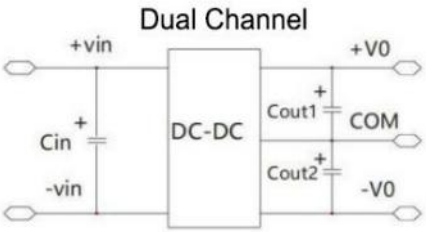
■Product specifications are subject to change without prior notice, for details, please pay attention to our official website or contact our technical staff.

Operating Characterstic Curve



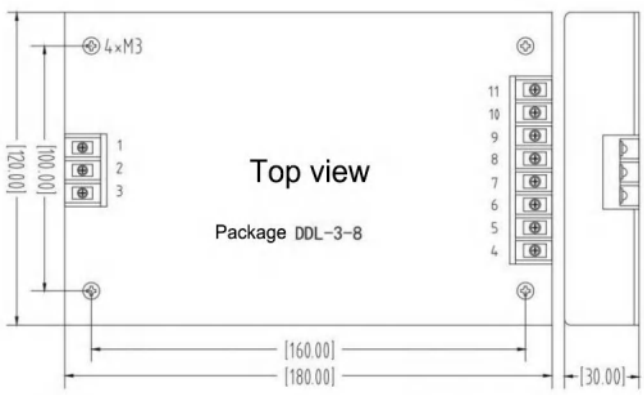
Recommend Circuit





- Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended
- If the module is connected to a digital circuit, add cout, cout1, cout2

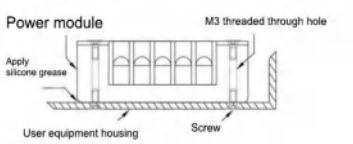
Mechanical Dimensions Figure &Installation Method



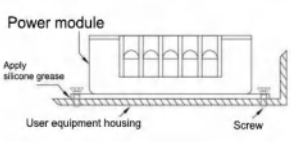
Bottom is heat dissipation surface
Unit size is in millimeters
ALL DIMENSIONS IN MM

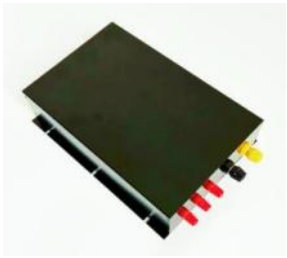
PIN	SING	DOU	TRI	QUA
1	+Vin	+Vin	+Vin	+Vin
2	NC	NC	NC	NC
3	-Vin	-Vin	-Vin	-Vin
4	+Vo	-Vo1	-Vo1	-Vo1
5	+Vo	NC	+Vo1	+Vo1
6	+Vo	+Vo1	NC	-Vo2
7	+Vo	NC	-Vo2	+Vo2
8	-Vo	NC	+Vo2	-Vo3
9	-Vo	-Vo2	NC	+Vo3
10	-Vo	NC	-Vo3	-Vo4
11	-Vo	+Vo2	+Vo3	+Vo4

Conventional installation method



Horseshoe hole package installation method





- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Rated Value**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	110VDC	66-160VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-900VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			For other input voltages, please consult our sales service	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DDM1500-xS12	x=12(9-18) =18(9-36) =24(18-36) =36(18-72) =48(36-72) =110(66-160) =200(100-300) =300 (200-400 =600(400-800) =800(600-1000)	12	125	84	DDM1500-xS12	DDM3000-xS19	DDM1500-xS12J
DDM1600-xS15		15	106	85	DDM1600-xS15	DDM2900-x528	DDM1600-xS15J
DDM1700--xS18		18	94	87	DDM1700-xS18	DDM2800-xS32	DDM1700-xS18J
DDM1800-xS24		24	75	87	DDM1800-xS24	DDM2700-xS48	DDM1800-xS24J
DDM1900-xS110		110	17.2	91	DDM1900-xS110	DDM2600-xS72	DDM1900-xS110J
DDM2000-xS220		220	9.09	92	DDM2000-xS220	DDM2500-xS90	DDM2000-xS220J
DDM2100-xS12		12	175	85	DDM2100-xS12	DDM2400-xS12	DDM2100-xS12J
DDM2200-xS15		15	146.6	85	DDM2000-xS15	DDM2300-xS25	DDM22000-xS15J
DDM2300-xS24		24	95.83	87	DDM1900-xS24	DDM220-xS32	DDM2300-xS24J
DDM2400-xS36		36	66.67	88	DDM1800-x536	DDM2100-xS72	DDM2400-xS36J
DDM2500-xS48		48	52	90	DDM1700-xS48	DDM2000-xS90	DDM2500-xS48J
DDM2600-xS110		110	23.6	91	DDM1600-xS110	DDM1900-xS220	DDM2600-xS110J
DDM2700-xD12		±12	112/112	84	DDM1500-xD12	DDM1800-xD18	DDM2700-xD12J
DDM2800-xD28		±28	50/50	85	DDM1600-xD28	DDM1700-xD36	DDM2800-xD28J
DDM2900-xD48		±48	30/30	89	DDM1700-xD48	DDM1600-xD72	DDM2900-xD48J
DDM3000-xE1224		12/24	125/62.5	85	DDM1800-xE1224	DDM1500-xE1515	DDM3000-xE1224J
DDM2900-xE2448		24/48	60/30	86	DDM1900-xE2448	DDM1400-xE2436	DDM2900-xE2448J
DDM2800-xE2836		28/36	50/38.6	87	DDM2000-xE2836	DDM1300-xE3648	DDM2800-xE2836J
DDM2700-xS18		18	150	85	DDM2100-xS18	DDM1200-xS27	DDM2700-xS18J
DDM2600-xS24		24	108	86	DDM2200-xS24	DDM1100-x532	DDM2600-xS24J
DDM2500-xS36		36	69	88	DDM2300-xS36	DDM1000-xS48	DDM2500-xS36J
DDM2400-xS110		110	21.8	90	DDM2400-xS110	DDM900-xS220	DDM2400-xS110J
DDM2300-xD24		±24	48/48	88	DDM2500-xD24	DDM1000-xD28	DDM2300-xD24J
DDM2200-xD36		±36	30/30	88	DDM2600-xD36	DDM1100-xD72	DDM2200-xD36J
DDM2100-xS24		24	87.5	86	DDM2700-xS24	DDM1200-xS36	DDM2100-xS24J
DDM2000-xS48		48	41.6	89	DDM2800-xS48	DDM1300-xS90	DDM2000-xS48J
DDM1900-xS72		72	26.3	91	DDM2900-xS72	DIM20001-1500-xS110	DDM1900-xS72J
DDM1800-xE1224		12/24	75/38	85	DDM3000-xE1224	DIM20001-1500-xE2424	DDM1800-xE1224J
DDM1700-xE1524		15/24	56/35	88	DDM2900-xE1524	DIM20001-1500-xE2436	DDM1700-xE1524J
DDM1600-xE2448		24/48	33/17	90	DDM2800-xE2448	DIM20001-1500-xE3672	DDM1600-XE2448J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

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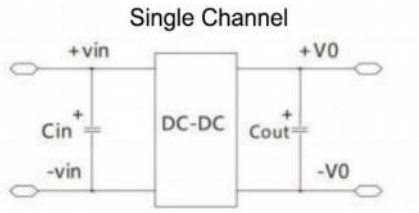
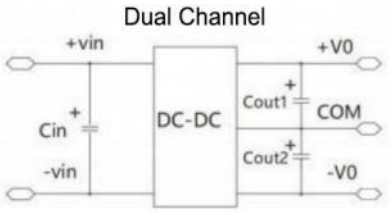
Recommend Circuit

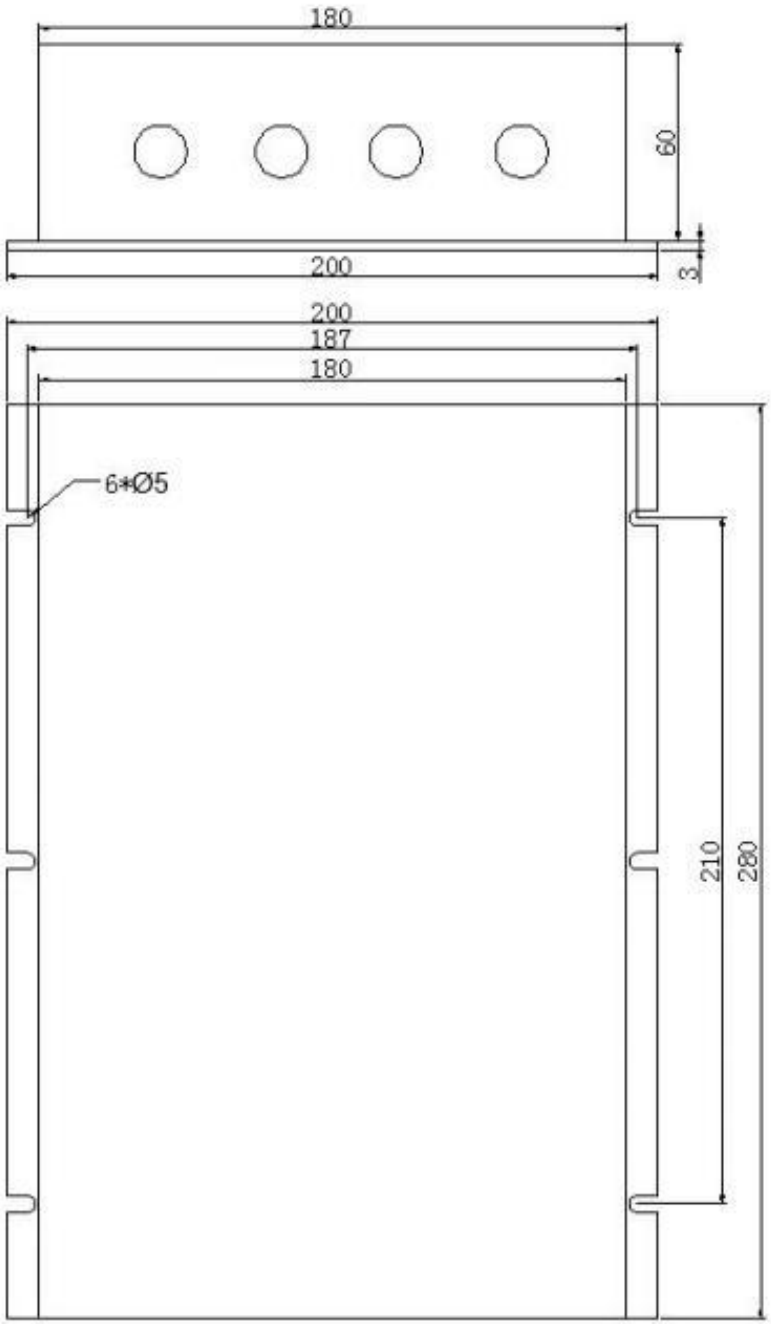


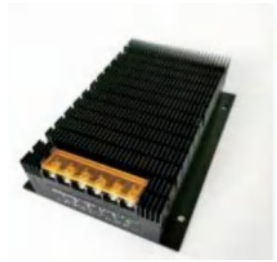


■Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended

■If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure





- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Rated Value**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	110VDC	66-160VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-900VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	10	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM2001-75-xS05	x=12 (9-18) =18(9-36) =24(18-36) =36(18-72) =48(36-72) =110(66-160) =200(100-300) =300(200-400) =600(400-900)	5	15	84	DIM2001-80-xS05	DIM2001-300-xS03	DIM2001-75-xS05J
DIM2001-80-xS12		12	6.66	85	DIM2001-90-xS12	DIM2001-290-xS09	DIM2001-80-xS12J
DIM2001-90-xS24		24	3.75	85	DIM2001-100-xS24	DIM2001-280-xS18	DIM2001-90-xS24J
DIM2001-100-xD12		±12	4.1/4.1	85	DIM2001-110-xD12	DIM2001-270-xD09	DIM2001-100-xD12J
DIM2001-110-xD15		±15	3.6/3.6	86	DIM2001-120-xD15	DIM2001-260-xD26	DIM2001-110-xD15J
DIM2001-120-xD24		±24	2.5/2.5	85	DIM2001-130-xD24	DIM2001-250-xD36	DIM2001-120-xD24J
DIM2001-130-xE0512		5/12	13/5.4	84	DIM2001-140-xE0512	DIM2001-240-xE1212	DIM2001-130-xE0512J
DIM2001-140-xE1224		12/24	5.8/2.9	86	DIM2001-150-xE1224	DIM2001-230-xE1236	DIM2001-140-xE1224
DIM2001-150-xE2448		24/48	3.1/1.5	88	DIM2001-160-xE2448	DIM2001-220-xE3648	DIM2001-150-xE2448J
DIM2001-160-xS09		9	17.7	84	DIM2001-170-xS09	DIM2001-210-xS15	DIM2001-160-xS09J
DIM2001-170-xS12		12	14.1	85	DIM2001-180-xS12	DIM2001-200-xS18	DIM2001-170-xS12J
DIM2001-180-xS24		24	7.5	86	DIM2001-190-xS24	DIM2001-190-xS26	DIM2001-180-xS24J
DIM2001-190-xS28		28	6.7	88	DIM2001-200-xS28	DIM2001-180-xS36	DIM2001-190-xS28J
DIM2001-200-xD05		±5	20/20	84	DIM2001-210-xD05	DIM2001-170-xD09	DIM2001-200-xD05J
DIM2001-210-xD12		±12	8.7/8.7	85	DIM2001-220-xD18	DIM2001-160-xD15	DIM2001-210-xD18J
DIM2001-220-xD24		±24	4.5/4.5	86	DIM2001-230-xD24	DIM2001-150-xD48	DIM2001-220-xD24J
DIM2001-230-xD28		±28	4.1/4.1	88	DIM2001-240-xD36	DIM2001-140-xD72	DIM2001-230-xD36J
DIM2001-240-xE1215		12/15	10/8	86	DIM2001-250-xE1215	DIM2001-130-xE0512	DIM2001-240-xE1215J
DIM2001-250-xE2424		24/24	5.2/5.2	88	DIM2001-260-xE2424	DIM2001-120-xE1236	DIM2001-250-xE2424J
DIM2001-260-xE2428		24/28	5.4/4.6	90	DIM2001-270-xE2436	DIM2001-110-xE2448	DIM2001-260-xE2436J
DIM2001-270-xS12		12	22.5	85	DIM2001-280-xS09	DIM2001-100-xS24	DIM2001-270-xS09J
DIM2001-280-xS24		24	11.6	86	DIM2001-290-xS18	DIM2001-90-xS52	DIM2001-280-xS18J
DIM2001-290-xS15		15	19.3	89	DIM2001-300-xS36	DIM2001-80-xS72	DIM2001-290-xS36J
DIM2001-300-xS28		28	10.7	85	DIM2001-290-xS28	DIM2001-75-xS15	DIM2001-300-xS28J
DIM2001-290-xS48		48	6.0	89	DIM2001-280-xS48	DIM2001-80-xS36	DIM2001-290-xS48J
DIM2001-280-xD12		±12	11.6/11.6	85	DIM2001-270-xD12	DIM2001-90-xD18	DIM2001-280-xD12J
DIM2001-270-xD24		±24	5.6/5.6	86	DIM2001-260-xD24	DIM2001-100-xD32	DIM2001-270-xD24J
DIM2001-260-xE0512		5/12	20/12.5	86	DIM2001-250-xE0512	DIM2001-110-xE0515	DIM2001-260-xE0512J
DIM2001-250-xE1224		12/24	10.4/5.2	87	DIM2001-240-xE0524	DIM2001-120-xE1524	DIM2001-250-xE0524J
DIM2001-240-xE1228		12/28	10/4.2	90	DIM2001-230-xE1236	DIM2001-130-xE2432	DIM2001-240-xE1236J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

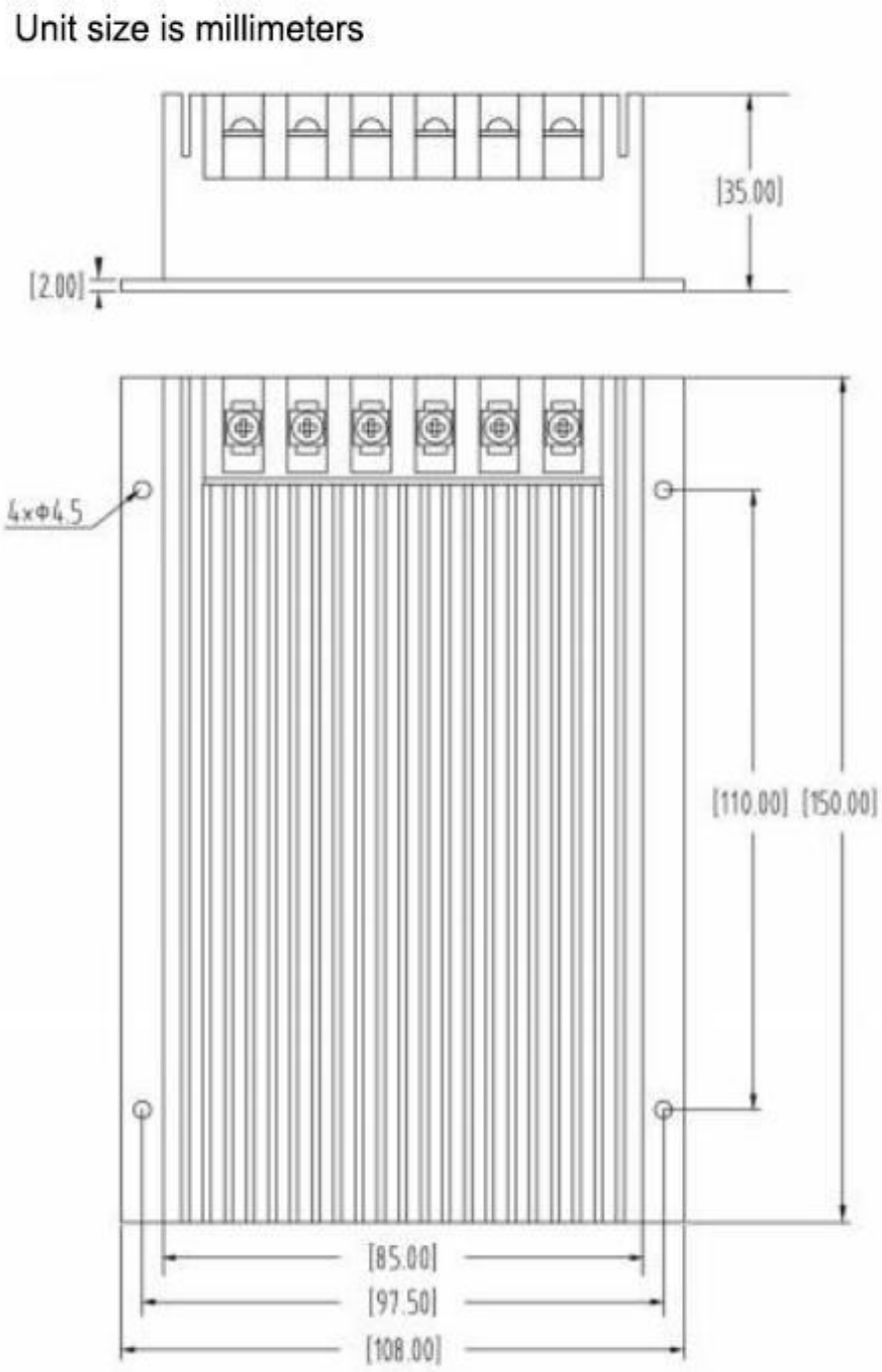
■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

Recommend Circuit

■Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended

■If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure



- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Rated Value**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	110VDC	66-160VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-900VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage (VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM3003-150-xS09	x=12 (9-18 =18(9-36) =24(18-36) =36(18-72) =48(36-72) =110(66-160) =200(100-300) =300(200-400) =600(400-900)	9	16.6	84	DIM3003-500-xS09	DIM3003-150-xS15	DIM3003-500-xS09J
DIM3003-200-xS12		12	16.6	85	DIM3003-450-xS12	DIM3003-200-xS28	DIM3003-450-xS12J
DIM3003-250-xS24		24	10.4	87	DIM3003-400-xS24	DIM3003-250-xS36	DIM3003-400-xS24J
DIM3003-300-xD12		±12	12.5/12.5	85	DIM3003-350-xD12	DIM3003-300-xD15	DIM3003-350-xD12J
DIM3003-350-xD28		±28	6.25/6.25	86	DIM3003-300-xD18	DIM3003-350-xD28	DIM3003-300-xD18J
DIM3003-400-xD24		±24	8.3/8.3	88	DIM3003-250-xD24	DIM3003-400-xD36	DIM3003-250-xD24J
DIM3003-450-xE2812		28/12	8.03/18.7	84	DIM3003-200-xE0512	DIM3003-450-xE1215	DIM3003-200-xE0512J
DIM3003-500-xE1224		12/24	20.8/10.4	86	DIM3003-150-xE1224	DIM3003-500-xE1528	DIM3003-150-xE1224J
DIM3003-450-xE2448		24/48	18.7/4.6	88	DIM3003-200-xE2448	DIM3003-450-xE2436	DIM3003-200-xE2448J
DIM3003-400-xS09		9	44.4	84	DIM3003-250-xS09	DIM3003-400-xS15	DIM3003-250-xS09J
DIM3003-350-xS12		12	29.1	85	DIM3003-300-xS12	DIM3003-350-xS18	DIM3003-300-xS12J
DIM3003-300-xS24		24	12.5	86	DIM3003-350-xS24	DIM3003-300-xS28	DIM3003-350-xS24J
DIM3003-200-xS28		28	7.14	90	DIM3003-400-xS28	DIM3003-250-xS32	DIM3003-400-xS28J
DIM3003-150-xD12		±12	6.25/6.25	84	DIM3003-450-xD09	DIM3003-200-xD12	DIM3003-450-xD09J
DIM3003-200-xD15		±15	6.6/6.6	85	DIM3003-500-xD15	DIM3003-150-xD28	DIM3003-500-xD15J
DIM3003-250-xD24		±24	5.2/5.2	86	DIM3003-450-xD24	DIM3003-200-xD32	DIM3003-450-xD24J
DIM3003-300-xD28		±28	5.35/5.35	89	DIM3003-400-xD36	DIM3003-250-xD48	DIM3003-400-xD36J
DIM3003-350-xE1224		12/24	14.5/7.2	86	DIM3003-350-xE1215	DIM3003-300-xE0512	DIM3003-350-xE1215J
DIM3003-400-xE2424		24/24	8.33/8.33	88	DIM3003-300-xE2424	DIM3003-350-xE1215	DIM3003-250-xE2424J
DIM3003-450-xE2428		24/28	9.3/8.03	90	DIM3003-250-xE2436	DIM3003-400-xE1528	DIM3003-200-xE2436J
DIM3003-500-xS09		9	55.5	85	DIM3003-200-xS09	DIM3003-450-xS12	DIM3003-150-xS09
DIM3003-450-xS12		12	37.5	86	DIM3003-150-xS18	DIM3003-500-xS24	DIM3003-200-xS18J
DIM3003-400-xD24		24	8.3/8.3	89	DIM3003-200-xD24	DIM3003-450-xD18	DIM3003-250-xD24J
DIM3003-350-xD28		28	6.25/6.25	91	DIM3003-250-xD72	DIM3003-400-×D28	DIM3003-300-xD72J
DIM3003-300-xS24		24	12.5	88	DIM3003-300-xS24	DIM3003-350-xS28	DIM3003-350-xS24J
DIM3003-250-xS28		28	8.9	89	DIM3003-350-xS36	DIM3003-300-xS42	DIM3003-400-xS28J
DIM3003-200-xS48		48	4.1	90	DIM3003-400-xS48	DIM3003-250-xS50	DIM3003-450-xS48J
DIM3003-150-xE0512		5/12	15/6.25	85	DIM3003-450-xE0512	DIM3003-200-xE1215	DIM3003-500-xE0512J
DIM3003-200-xE0524		5/24	20/4.16	86	DIM3003-500-xE0524	DIM3003-150-xE1524	DIM3003-450-xE0524J
DIM3003-250-xE1224		12/24	10.4/5.2	89	DIM3003-450-xE1236	DIM3003-200-xE1828	DIM3003-400-xE1236J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

Recommend Circuit

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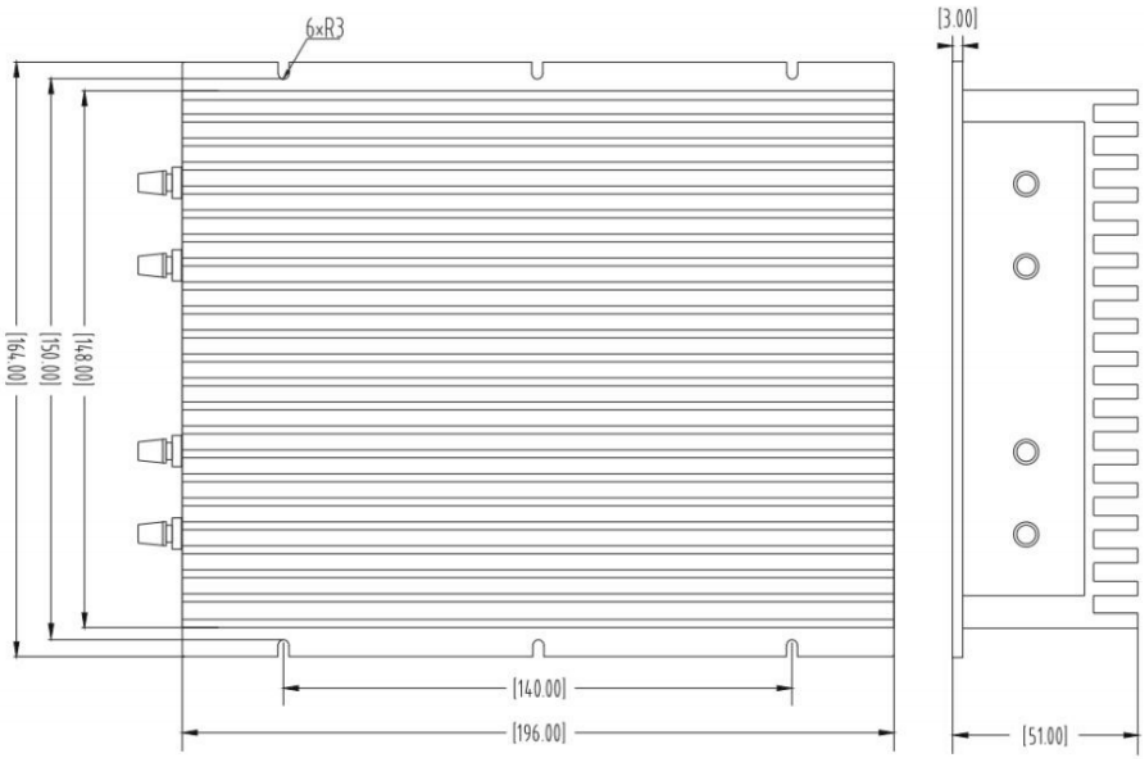
Mechanical Dimensions Figure



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CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Rated Value**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	110VDC	66-160VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-900VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM5001-300-xS05	x=12(9-18) =18(9-36) =24(18-36) =36 (18-72) =48 (36-72) =110 66-160) =200(100-300) =300(200-400) =600(400-800) =800(600-1000)	5	60	84	DIM5001-400-xS05	DIM5001-300-xS09	DIM5001-300-xS05J
DIM5001-350-xS12		12	29.1	85	DIM5001-750-xS12	DIM5001-350-xS18	DIM5001-350-xS12J
DIM5001-400-xS15		15	20	87	DIM5001-700-xS15	DIM5001-400-xS28	DIM5001-400-xS15J
DIM5001-450-xS24		24	18.7	87	DIM5001-650-xS24	DIM5001-450-xS36	DIM5001-450-xS24J
DIM5001-500-xS28		28	17.8	84	DIM5001-600-xD05	DIM5001-500-xD09	DIM5001-500-xD05J
DIM5001-550-xD12		±12	22.9/22.9	85	DIM5001-550-xD12	DIM5001-550-xD18	DIM5001-550-xD12
DIM5001-600-xD24		±24	12.5/12.5	85	DIM5001-500-xD15	DIM5001-600-xD24	DIM5001-600-xD15J
DIM5001-650-xE1212		12/12	27/27	84	DIM5001-450-xE0505	DIM5001-650-xE1215	DIM5001-650-xE0505J
DIM5001-700-xE1224		12/24	20.8/10.4	85	DIM5001-400-xE0512	DIM5001-700-xE1218	DIM5001-700-xE0512J
DIM5001-750-xE2424		24/24	15.6/15.6	85	DIM5001-350-xE0515	DIM5001-750-xE1824	DIM5001-750-xE0515J
DIM5001-700-xE2428		24/28	14.5/12.5	86	DIM5001-300-xE0524	DIM5001-700-xE2436	DIM5001-700-xE0524J
DM5001-650-xS12		12	54.1	85	DIM5001-350-xS12	DIM5001-650-xS09	DIM5001-650-xS12J
DIM5001-500-xS24		24	20.8	86	DIM5001-400-xS15	DIM5001-600-xS18	DIM5001-600-xS15J
DIM5001-450-xS28		28	16	88	DIM5001-450-xS28	DIM5001-550-xS48	DIM5001-550-xS28J
DIM5001-400-xD28		±28	7.1/7.1	84	DIM5001-500-xD05	DIM5001-500-xD18	DIM5001-500-xD05
DIM5001-350-xD12		±12	14.5/14.5	85	DIM5001-550-xD12	DIM5001-450-xD26	DIM5001-450-xD12J
DIM5001-300-xD28		±28	5.3/5.3	85	DIM5001-600-xD15	DIM5001-400-xD36	DIM5001-400-xD15J
DIM5001-350-xD24		±24	7.2/7.2	87	DIM5001-650-xD24	DIM5001-350-xD48	DIM5001-350-xD24J
DIM5001-400-xS12		12	33.3	84	DIM5001-700-xS12	DIM5001-300-xS09	DIM5001-300-xS12J
DIM5001-450-xS15		15	30	86	DIM5001-750-xS15	DIM5001-350-xS18	DIM5001-350-xS15J
DIM5001-500-xS24		24	20.8	86	DIM5001-700-xS24	DIM5001-400-xS29	DIM5001-400-xS24J
DIM5001-550-xS28		28	19.6	88	DIM5001-650-xS28	DIM5001-450-xS72	DIM5001-450-xS28J
DIM5001-600-xD24		±24	12.5/12.5	88	DIM5001-600-xD24	DIM5001-500-xD28	DIM5001-500-xD24J
DIM5001-650-xD36		±36	9/9	90	DIM5001-550-xD3	DIM5001-550-xD4E	DIM5001-550-xD36J
DIM5001-700-xS12		12	58.3	86	DIM5001-500-xS12	DIM5001-600-xS24	DIM5001-600-xS15J
DIM5001-750-xS28		28	26.7	89	DIM5001-450-xS29	DIM5001-650-xS36	DIM5001-650-xS28J
DIM5001-700-xS24		24	29.1	91	DIM5001-400-xS54	DIM5001-700-xS48	DIM5001-700-xS72J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

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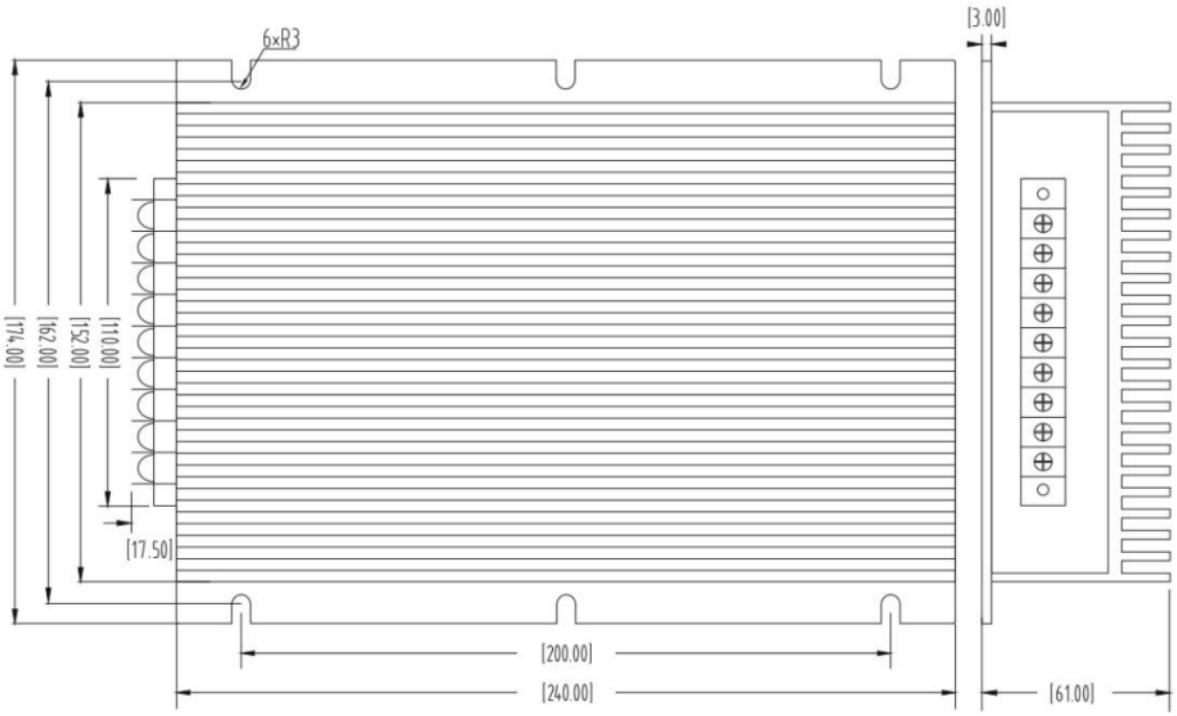

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Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Rated Value**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	200VDC	100-300VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-800VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM5001-600-xS28	x =12 (9-18) =18(9-36) =24(18-36) =36 (18-72) =48 (36-72) =110 (66-160) =200(100-300) =300(200-400) =600(400-800) =800(600-1000)	28	21.4	84	DIM5001-600-xS05	DIM5001-1200-xS09	DIM5001-600-xS05J
DIM5001-700-xS12		12	58.3	85	DIM5001-700-xS12	DIM5001-1100-xS18	DIM5001-700-xS12J
DIM5001-800-xS15		15	53.3	87	DIM5001-800-xS15	DIM5001-1000-xS28	DIM5001-800-xS15J
DIM5001-900-xS24		24	37.5	87	DIM5001-900-xS24	DIM5001-900-xS36	DIM5001-900-xS24J
DIM5001-1000-xD24		±24	20.8/20.8	84	DIM5001-1000-xD05	DIM5001-800-xD09	DIM5001-1000-xD05J
DIM5001-1100-xD12		±12	45.8/45.8	85	DIM5001-1100-xD12	DIM5001-700-xD18	DIM5001-1100-xD12J
DIM5001-1200-xD28		±28	21.4/21.4	85	DIM5001-1200-xD15	DIM5001-600-xD24	DIM5001-1200-xD15J
DIM5001-1100-xE1212		12/12	45.8/45.8	84	DIM5001-1100-xE0505	DIM5001-700-xE1215	DIM5001-1100-xE0505J
DIM5001-1000-xE1224		12/24	41.6/20.8	85	DIM5001-1000-xE0512	DIM5001-800-xE1218	DIM5001-1000-xE0512J
DIM5001-900-xE1228		12/28	37.5/16	85	DIM5001-900-xE0515	DIM5001-900-xE1824	DIM5001-900-xE0515J
DIM5001-800-xE2428		24/28	16.6/14.2	86	DIM5001-800-xE0524	DIM5001-1000-xE2436	DIM5001-800-xE0524J
DM5001-700-xS24		24	29.1	85	DIM5001-700-xS12	DIM5001-1100-xS09	DIM5001-700-xS12J
DIM5001-600-xS15		15	40	86	DIM5001-600-xS15	DIM5001-1200-xS18	DIM5001-600-xS15J
DIM5001-700-xS28		28	25	88	DIM5001-700-xS28	DIM5001-1100-xS48	DIM5001-700-xS28J
DIM5001-800-xD28		±28	14.2/14.2	84	DIM5001-800-xD05	DIM5001-1000-xD18	DIM5001-800-xD05J
DIM5001-900-xD12		±12	37.5/37.5	85	DIM5001-900-xD12	DIM5001-900-xD26	DIM5001-900-xD12J
DIM5001-1000-xD28		±28	17.8/17.8	85	DIM5001-1000-xD15	DIM5001-800-xD36	DIM5001-1000-xD15J
DIM5001-1100-xD24		±24	22.9/22.9	87	DIM5001-1100-xD24	DIM5001-700-xD48	DIM5001-1100-xD24J
DIM5001-1200-xS12		12	100	84	DIM5001-1200-xS12	DIM5001-600-xS09	DIM5001-1200-xS12J
DIM5001-1000-xS15		15	66.6	86	DIM5001-1100-xS15	DIM5001-700-xS18	DIM5001-1100-xS15J
DIM5001-900-xS24		24	37.5	86	DIM5001-900-xS24	DIM5001-800-xS29	DIM5001-1000-xS24J
DIM5001-800-xS28		28	28.5	88	DIM5001-800-xS28	DIM5001-900-xS72	DIM5001-900-xS28J
DIM5001-700-xD24		±24	14.5/14.5	88	DIM5001-700-xD24	DIM5001-1000-xD28	DIM5001-800-xD24J
DIM5001-600-xD12		±12	25/25	90	DIM5001-600-xD3	DIM5001-1100-xD48	DIM5001-700-xD36J
DIM5001-700-xS15		15	46.6	86	DIM5001-700-xS12	DIM5001-1200-xS24	DIM5001-600-xS15J
DIM5001-800-xS28		28	28.5	89	DIM5001-800-xS29	DIM5001-1100-xS36	DIM5001-700-xS28J
DIM5001-900-xS24		24	37.5	91	DIM5001-900-xS54	DIM5001-1000-xS48	DIM5001-800-xS72J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

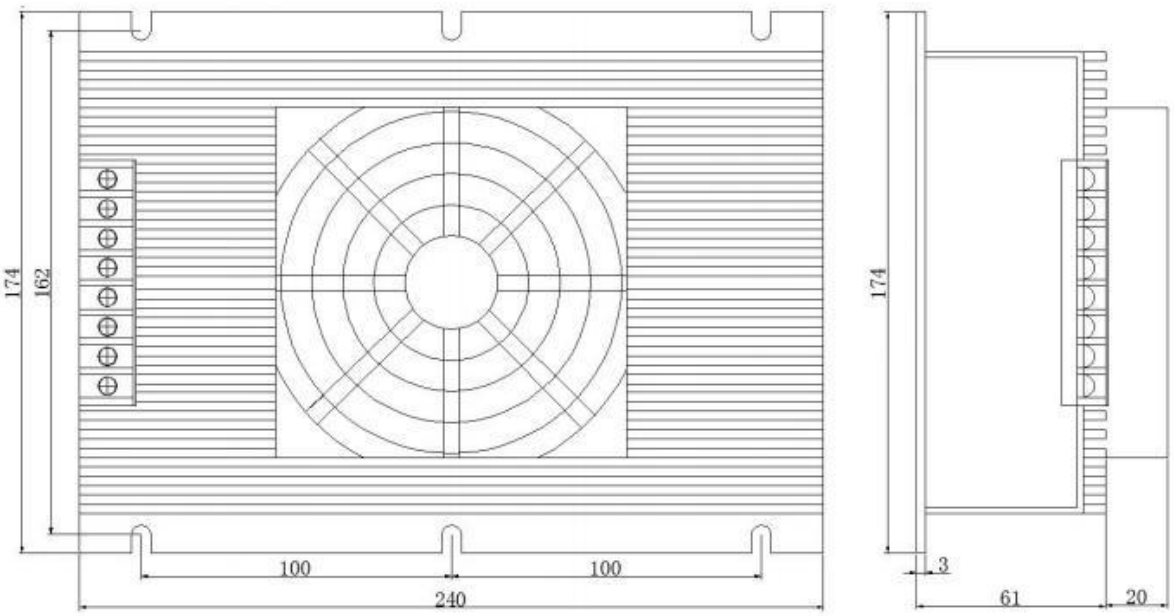
■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

Recommend Circuit

■Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended

■If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure



- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Rated Value**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	110VDC	66-160VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-900VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage (VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM5002-250-xS09	x =12 (9-18) =18 (9-36) =24 (18-36) =36 (18-72) =48 (36-72) =110 (66-160) =200 (100-300 =300 (200-400) =600 (400-900)	9	27. 7	84	DIM5002-260-xS09	DIM5002-280-xS15	DIM5002-280-xS09J
DIM5002-300-xS12		12	25	85	DIM5002-360-xS12	DIM5002-380-xS28	DIM5002-380-xS12J
DIM5002-400-xS24		24	16. 6	87	DIM5002-460-xS24	DIM5002-480-xS36	DIM5002-480-xS24J
DIM5002-500-xD12		±12	20. 8/20. 8	85	DIM5002-560-xD12	DIM5002-580-xD15	DIM5002-580-xD12J
DIM5002-600-xD28		±28	10. 7/10. 7	86	DIM5002-660-xD18	DIM5002-680-xD28	DIM5002-660-xD18J
DIM5002-700-xD24		±24	14. 5/14. 5	88	DIM5002-700-xD24	DIM5002-280-xD36	DIM5002-280-xD24J
DIM5002-300-xE1212		12/12	12. 5/12. 5	84	DIM5002-250-xE0512	DIM5002-380-xE1215	DIM5002-380-xE0512J
DIM5002-400-xE1224		12/24	16. 6/8. 33	86	DIM5002-350-xE1224	DIM5002-480-xE1528	DIM5002-480-xE1224J
DIM5002-500-xE2448		24/48	10. 4/5. 2	88	DIM5002-450-xE2448	DIM5002-580-xE2436	DIM5002-580-xE2448J
DIM5002-600-xS09		9	66. 6	84	DIM5002-520-xS09	DIM5002-600-xS15	DIM5002-300-xS09J
DIM5002-700-xS12		12	58. 3	85	DIM5002-620-xS12	DIM5002-700-xS18	DIM5002-400-xS12J
DIM5002-700-xS24		24	29. 1	86	DIM5002-700-xS24	DIM5002-280-xS28	DIM5002-500-xS24J
DIM5002-600-xS28		28	21. 4	90	DIM5002-300-xS28	DIM5002-300-xS32	DIM5002-600-xS28J
DIM5002-500-xD12		±12	20. 8/20. 8	84	DIM5002-400-xD09	DIM5002-400-xD12	DIM5002-700-xD09J
DIM5002-400-xD15		±15	13. 3/13. 3	85	DIM5002-500-xD15	DIM5002-500-xD28	DIM5002-300-xD15J
DIM5002-300-xD24		±24	6. 25/6, 25	86	DIM5002-600-xD24	DIM5002-600-xD32	DIM5002-400-xD24J
DIM5002-300-xD28		±28	5. 3/5. 3	89	DIM5002-700-xD36	DIM5002-700-xD48	DIM5002-500-xD36J
DIM5002-400-xE1215		12/15	16. 6/13. 3	86	DIM5002-350-xE1215	DIM5002-300-xE0512	DIM5002-600-xE1215J
DIM5002-500-xE2424		24/24	10. 4/10. 4	88	DIM5002-450-xE2424	DIM5002-400-xE1215	DIM5002-300-xE2424J
DIM5002-600-xE2428		24/28	12. 5/10. 7	90	DIM5002-550-xE2436	DIM5002-400-xE1528	DIM5002-400-xE2436J
DIM5002-700-xS12		12	58. 3	85	DIM5002-650-xS09	DIM5002-500-xS12	DIM5002-500-xS09J
DIM5002-600-xS28		28	21. 4	86	DIM5002-700-xS18	DIM5002-600-xS24	DIM5002-600-xS18J
DIM5002-500-xD24		24	10. 4/10. 4	89	DIM5002-250-xD24	DIM5002-700-xD18	DIM5002-700-xD24J
DIM5002-400-xD15		15	13. 3/13. 3	91	DIM5002-350-xD72	DIM5002-300-xD28	DIM5002-300-xD72J
DIM5002-500-xS24		24	20. 8	88	DIM5002-400-xS24	DIM5002-500-xS28	DIM5002-500-xS24J
DIM5002-500-xS28		28	17. 8	89	DIM5002-500-xS36	DIM5002-500-xS42	DIM5002-600-xS28J
DIM5002-500-xS48		48	10. 4	90	DIM5002-600-xS48	DIM5002-700-xS50	DIM5002-700-xS48J
DIM5002-400-xE1212		12/12	16. 6/16. 6	85	DIM5002-650-xE0512	DIM5002-400-xE1215	DIM5002-400-xE0512J
DIM5002-400-xE1224		12/24	16. 6/8. 3	86	DIM5002-650-xE0524	DIM5002-400-xE1524	DIM5002-500-xE0524J
DIM5002-400-xE1228		12/28	16. 6/7. 1	89	DIM5002-650-xE1236	DIM5002-600-xE1828	DIM5002-600-xE1236J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

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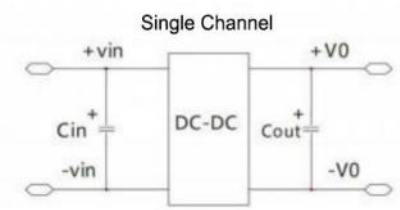
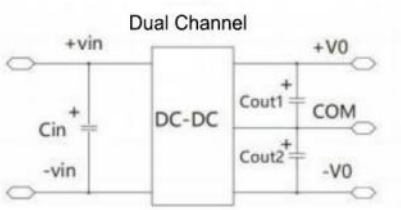
Recommend Circuit





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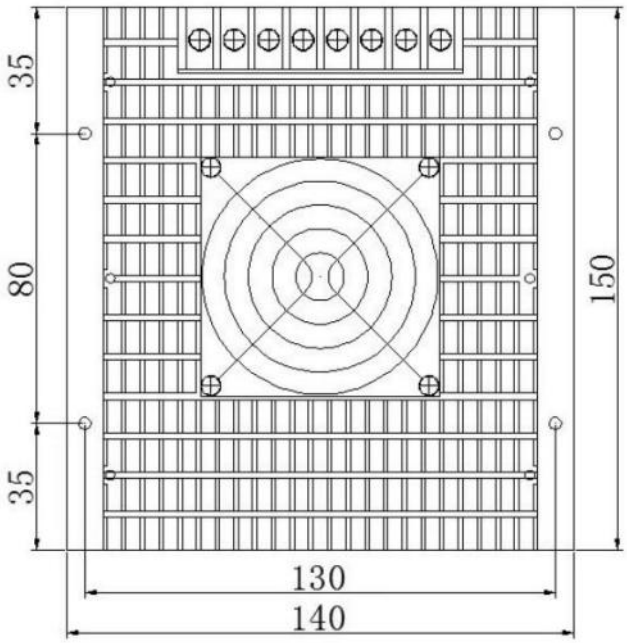
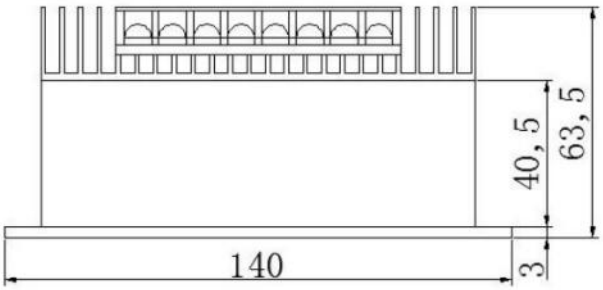
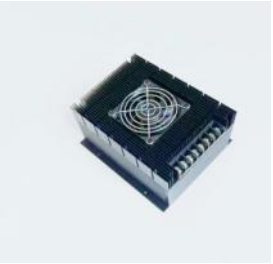
Mechanical Dimensions Figure







- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Voltage Range**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	110VDC	66-160VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-900VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage (VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM5003-350-xS09	x =12 (9-18) =18(9-36) =24(18-36) =36(18-72) =48(36-72) =110(66-160) =200(100-300) =300(200-400) =600(400-900)	9	38.8	84	DIM5003-300-xS09	DIM5003-750-xS15	DIM5003-300-xS09J
DIM5003-400-xS12		12	33.3	85	DIM5003-350-xS12	DIM5003-700-xS28	DIM5003-350-xS12J
DIM5003-450-xS24		24	18.75	87	DIM5003-400-xS24	DIM5003-650-xS36	DIM5003-400-xS24J
DIM5003-500-xD12		±12	20.8/20.8	85	DIM5003-450-xD12	DIM5003-600-xD15	DIM5003-450-xD12J
DIM5003-550-xD28		±28	19.6/19.6	86	DIM5003-500-xD18	DIM5003-550-xD28	DIM5003-500-xD18J
DIM5003-600-xD24		±24	12.5/12.5	88	DIM5003-550-xD24	DIM5003-500-xD36	DIM5003-550-xD24J
DIM5003-700-xE1212		12/12	29.1/29.1	84	DIM5003-600-xE0512	DIM5003-450-xE1215	DIM5003-600-xE0512J
DIM5003-750-xE1224		12/24	31.2/15.6	86	DIM5003-650-xE1224	DIM5003-400-xE1528	DIM5003-650-xE1224J
DIM5003-700-xE2448		24/48	15.6/6.77	88	DIM5003-700-xE2448	DIM5003-350-xE2436	DIM5003-700-xE2448J
DIM5003-650-xS09		9	72.2	84	DIM5003-750-xS09	DIM5003-300-xS15	DIM5003-750-xS09J
DIM5003-600-xS12		12	50	85	DIM5003-700-xS12	DIM5003-350-xS18	DIM5003-700-xS12J
DIM5003-550-xS24		24	22.9	86	DIM5003-650-xS24	DIM5003-400-xS28	DIM5003-650-xS24J
DIM5003-500-xS28		28	17.8	90	DIM5003-600-xS28	DIM5003-450-xS32	DIM5003-600-xS28J
DIM5003-450-xD12		±12	18.7/18.7	84	DIM5003-550-xD09	DIM5003-500-xD12	DIM5003-550-xD09J
DIM5003-400-xD15		±15	13.3/13.3	85	DIM5003-500-xD15	DIM5003-550-xD28	DIM5003-500-xD15J
DIM5003-350-xD24		±24	7.2/7.2	86	DIM5003-450-xD24	DIM5003-600-xD32	DIM5003-450-xD24J
DIM5003-300-xD28		±28	5.3/5.3	89	DIM5003-400-xD36	DIM5003-650-xD48	DIM5003-400-xD36J
DIM5003-350-xE1212		12/12	14.5/14.5	86	DIM5003-350-xE1215	DIM5003-700-xE0512	DIM5003-350-xE1215J
DIM5003-400-xE2424		24/24	8.33/8.33	88	DIM5003-300-xE2424	DIM5003-750-xE1215	DIM5003-300-xE2424J
DIM5003-450-xE2428		24/28	9.3/8.0	90	DIM5003-350-xE2436	DIM5003-700-xE1528	DIM5003-350-xE2436J
DIM5003-500-xS12		12	41.6	85	DIM5003-400-xS09	DIM5003-650-xS12	DIM5003-400-xS09J
DIM5003-600-xS28		28	21.4	86	DIM5003-450-xS18	DIM5003-600-xS24	DIM5003-450-xS18J
DIM5003-650-xD24		24	13.5/13.5	89	DIM5003-500-xD24	DIM5003-550-xD18	DIM5003-500-xD24J
DIM5003-700-xD15		15	23.3/23.3	91	DIM5003-550-xD72	DIM5003-500-xD28	DIM5003-550-xD72J
DIM5003-750-xS24		24	31.2	88	DIM5003-600-xS24	DIM5003-450-xS28	DIM5003-600-xS24J
DIM5003-700-xS28		28	25	89	DIM5003-650-xS36	DIM5003-400-xS42	DIM5003-650-xS28J
DIM5003-650-xS48		48	13.5	90	DIM5003-700-xS48	DIM5003-350-xS50	DIM5003-700-xS48J
DIM5003-600-xE1212		12/12	25/25	85	DIM5003-750-xE0512	DIM5003-300-xE1215	DIM5003-750-xE0512J
DIM5003-550-xE1224		12/24	22.9/11.4	86	DIM5003-700-xE0524	DIM5003-350-xE1524	DIM5003-600-xE0524J
DIM5003-500-xE2428		24/28	10.4/8.9	89	DIM5003-650-xE1236	DIM5003-400-xE1828	DIM5003-550-xE1236J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

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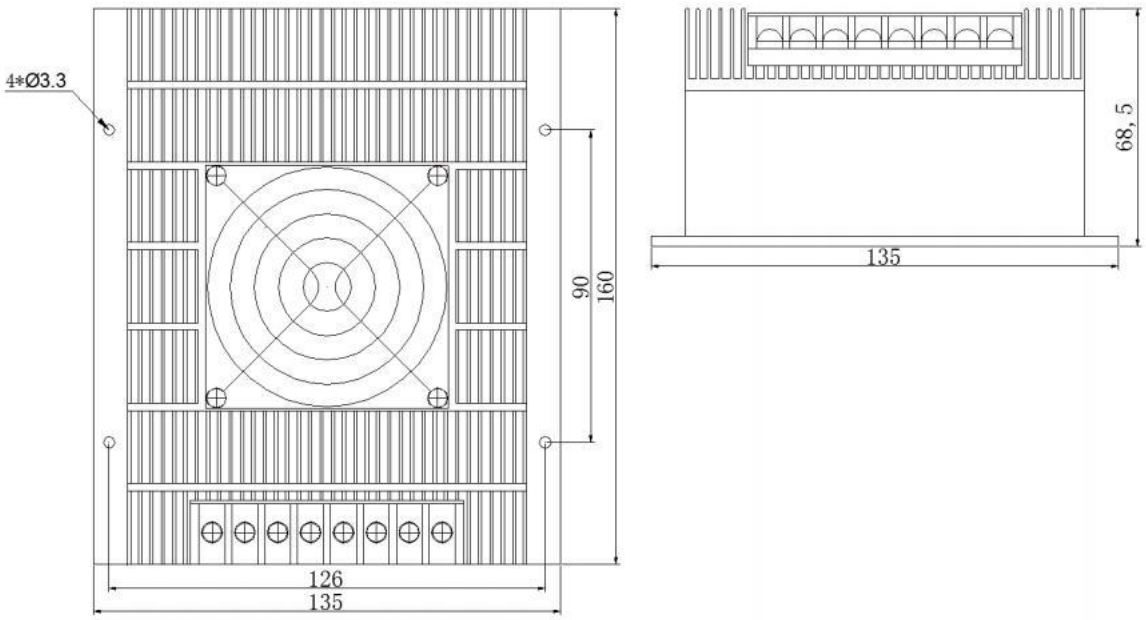

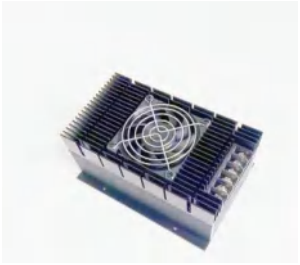

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CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Voltage Range**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	110VDC	66-160VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-900VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage (VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM5004-200-xS09	x =12 (9-18) =18(9-36) =24(18-36) =36(18-72) =48(36-72) =110(66-160) =200(100-300 =300(200-400) =600(400-900)	9	22.2	84	DIM5004-200-xS09	DIM5004-500-xS15	DIM5004-200-xS09J
DIM5004-250-xS12		12	20.8	85	DIM5004-250-xS12	DIM5004-450-xS28	DIM5004-250-xS12J
DIM5004-300-xS24		24	12.5	87	DIM5004-300-xS24	DIM5004-400-xS36	DIM5004-300-xS24J
DIM5004-350-xD12		±12	14.5/14.5	85	DIM5004-350-xD12	DIM5004-350-xD15	DIM5004-450-xD12J
DIM5004-400-xD28		±28	7.1/7.1	86	DIM5004-400-xD18	DIM5004-300-xD28	DIM5004-500-xD18J
DIM5004-450-xD24		±24	9.3/9.3	88	DIM5004-450-xD24	DIM5004-250-xD36	DIM5004-450-xD24J
DIM5004-500-xE1212		12/12	20.8/20.8	84	DIM5004-500-xE0512	DIM5004-200-xE1215	DIM5004-400-xE0512J
DIM5004-450-xE1224		12/24	18.7/9.3	86	DIM5004-450-xE1224	DIM5004-250-xE1528	DIM5004-350-xE1224J
DIM5004-400-xE2428		24/28	8.3/7.1	88	DIM5004-400-xE2448	DIM5004-300-xE2436	DIM5004-300-xE2448J
DIM5004-350-xS48		48	7.3	84	DIM5004-350-xS09	DIM5004-350-xS15	DIM5004-250-xS09J
DIM5004-300-xS12		12	25	85	DIM5004-300-xS12	DIM5004-400-xS18	DIM5004-200-xS12J
DIM5004-350-xS24		24	14.5	86	DIM5004-250-xS24	DIM5004-450-xS28	DIM5004-250-xS24J
DIM5004-400-xS28		28	14.2	90	DIM5004-200-xS28	DIM5004-500-xS32	DIM5004-300-xS28J
DIM5004-450-xD12		±12	18.7/18.7	84	DIM5004-250-xD09	DIM5004-450-xD12	DIM5004-350-xD09J
DIM5004-500-xD15		±15	16.6/16.6	85	DIM5004-300-xD15	DIM5004-400-xD28	DIM5004-400-xD15J
DIM5004-450-xD24		±24	9.3/9.3	86	DIM5004-350-xD24	DIM5004-350-xD32	DIM5004-450-xD24J
DIM5004-400-xD28		±28	7.1/7.1	89	DIM5004-400-xD36	DIM5004-300-xD48	DIM5004-500-xD36J
DIM5004-350-xE1212		12/12	14.5/14.5	86	DIM5004-450-xE1215	DIM5004-250-xE0512	DIM5004-450-xE1215J
DIM5004-300-xE1224		12/24	12.5/6.25	88	DIM5004-500-xE2424	DIM5004-200-xE1215	DIM5004-400-xE2424J
DIM5004-350-xE2428		24/28	7.2/6.2	90	DIM5004-450-xE2436	DIM5004-250-xE1528	DIM5004-350-xE2436J
DIM5004-400-xS12		12	33.3	85	DIM5004-400-xS09	DIM5004-300-xS12	DIM5004-300-xS09J
DIM5004-450-xS28		28	16	86	DIM5004-350-xS18	DIM5004-350-xS24	DIM5004-250-xS18J
DIM5004-500-xD24		±24	10.4/10.4	89	DIM5004-300-xD24	DIM5004-400-xD18	DIM5004-200-xD24J
DIM5004-450-xD15		±15	16.6/16.6	91	DIM5004-250-xD72	DIM5004-450-xD28	DIM5004-250-xD72J
DIM5004-400-xS24		24	16.6	88	DIM5004-200-xS24	DIM5004-500-xS28	DIM5004-300-xS24J
DIM5004-350-xS28		28	12.5	89	DIM5004-250-xS36	DIM5004-450-xS42	DIM5004-350-xS28J
DIM5004-300-xS48		48	6.25	90	DIM5004-300-xS48	DIM5004-400-xS50	DIM5004-400-xS48J
DIM5004-250-xE1212		12/12	10.4/10.4	85	DIM5004-350-xE0512	DIM5004-350-xE1215	DIM5004-450-xE0512J
DIM5004-200-xE1224		12/24	8.3/4.1	86	DIM5004-400-xE0524	DIM5004-300-xE1524	DIM5004-400-xE0524J
DIM5004-250-xE2428		24/28	5.2/4.4	89	DIM5004-450-xE1236	DIM5004-250-xE1828	DIM5004-350-xE1236J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

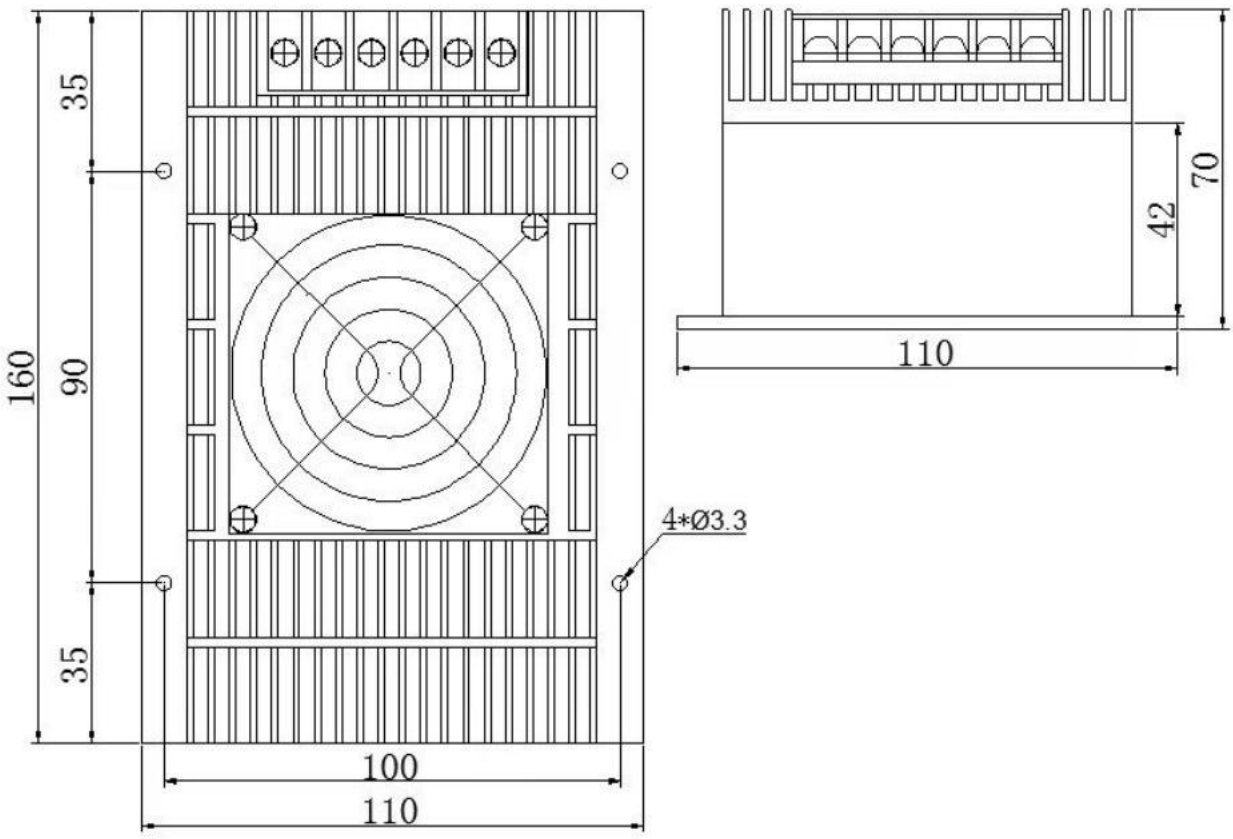
■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

Recommend Circuit

■Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended

■If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure



- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic

Test Item	Test Condition	Min	Rated	Max	Unit
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic

	Rated Value	Voltage Range	Rated Value	Voltage Range
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	200VDC	100-300VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-800VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic

Test Item	Test Condition	Min	Rated	Max	Unit
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic

Test Item	Test Condition	Min	Rated	Max	Unit
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM9002-400-xS05	x =12 (9-18) =18(9-36) =24(18-36) =36 (18-72) =48 (36-72) =110 (66-160) =200(100-300) =300(200-400) =600(400-800) =800(600-1000)	5	80	84	DIM9002-400-xS05	DIM9002-1000-xS09	DIM9002-400-xS05J
DIM9002-500-xS12		12	41.6	85	DIM9002-500-xS12	DIM9002-900-xS18	DIM9002-500-xS12J
DIM9002-600-xS15		15	40	87	DIM9002-600-xS15	DIM9002-800-xS28	DIM9002-600-xS15J
DIM9002-700-xS24		24	29.1	87	DIM9002-700-xS24	DIM9002-700-xS36	DIM9002-700-xS24J
DIM9002-800-xD24		±24	16.6/16.6	84	DIM9002-800-xD05	DIM9002-600-xD09	DIM9002-800-xD05J
DIM9002-900-xD12		±12	37.5/37.5	85	DIM9002-900-xD12	DIM9002-500-xD18	DIM9002-900-xD12J
DIM9002-1000-xD28		±28	17.8/17.8	85	DIM9002-1000-xD15	DIM9002-400-xD24	DIM9002-1000-xD15J
DIM9002-900-xE1212		12/12	37.5/37.5	84	DIM9002-900-xE0505	DIM9002-500-xE1215	DIM9002-900-xE0505J
DIM9002-800-xE1224		12/24	33.3/16.6	85	DIM9002-800-xE0512	DIM9002-600-xE1218	DIM9002-800-xE0512J
DIM9002-700-xE1228		12/28	29.1/12.5	85	DIM9002-700-xE0515	DIM9002-700-xE1824	DIM9002-700-xE0515J
DIM9002-600-xE2428		24/28	12.5/10.7	86	DIM9002-600-xE0524	DIM9002-800-xE2436	DIM9002-600-xE0524J
DM9002-500-xS12		12	41.6	85	DIM9002-500-xS12	DIM9002-900-xS09	DIM9002-500-xS12J
DIM9002-400-xS15		15	26.6	86	DIM9002-400-xS15	DIM9002-1000-xS18	DIM9002-400-xS15J
DIM9002-500-xS28		28	17.8	88	DIM9002-500-xS28	DIM9002-900-xS48	DIM9002-500-xS28J
DIM9002-600-xD28		±28	10.7/10.7	84	DIM9002-600-xD05	DIM9002-800-xD18	DIM9002-600-xD05J
DIM9002-700-xD12		±12	29.1/29.1	85	DIM9002-700-xD12	DIM9002-700-xD26	DIM9002-700-xD12J
DIM9002-800-xD15		±15	26.6/26.6	85	DIM9002-800-xD15	DIM9002-600-xD36	DIM9002-800-xD15J
DIM9002-900-xD24		±24	18.7/18.7	87	DIM9002-900-xD24	DIM9002-500-xD48	DIM9002-900-xD24J
DIM9002-1000-xS12		12	41.6/41.6	84	DIM9002-1000-xS12	DIM9002-400-xS09	DIM9002-1000-xS12J
DIM9002-900-xS15		15	60	86	DIM9002-900-xS15	DIM9002-500-xS18	DIM9002-900-xS15J
DIM9002-800-xS24		24	33.3	86	DIM9002-800-xS24	DIM9002-600-xS29	DIM9002-800-xS24J
DIM9002-700-xS28		28	25	88	DIM9002-700-xS28	DIM9002-700-xS72	DIM9002-700-xS28J
DIM9002-600-xD24		±24	12.5/12.5	88	DIM9002-600-xD24	DIM9002-800-xD28	DIM9002-600-xD24J
DIM9002-500-xD28		±28	8.9/8.9	90	DIM9002-500-xD3	DIM9002-900-xD48	DIM9002-500-xD36J
DIM9002-400-xS15		15	26.6	86	DIM9002-400-xS12	DIM9002-1000-xS24	DIM9002-400-xS15J
DIM9002-500-xS28		28	17.8	89	DIM9002-500-xS29	DIM9002-900-xS36	DIM9002-500-xS28J
DIM9002-600-xS24		24	25	91	DIM9002-600-xS54	DIM9002-800-xS48	DIM9002-600-xS72J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

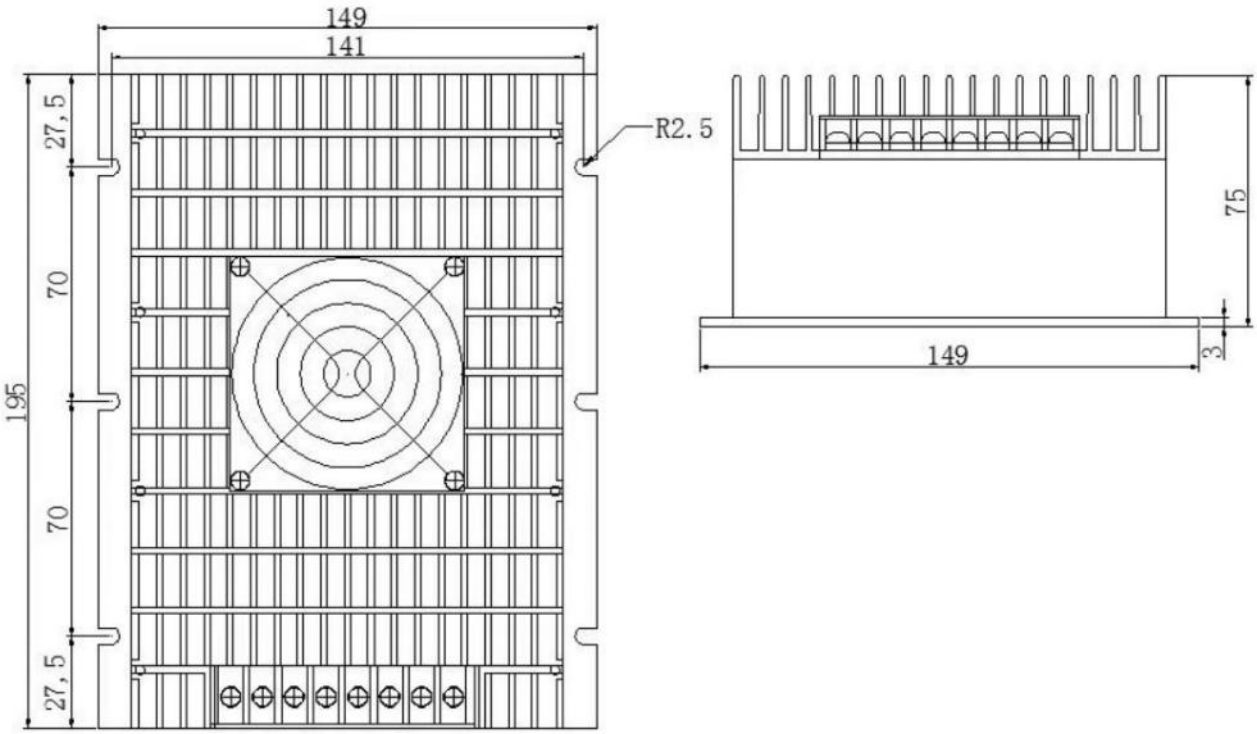
■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

Recommend Circuit

■Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended

■If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure



- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Voltage Range**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	200VDC	100-300VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-800VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM10001-600-xS12	x =12 (9-18) =18(9-36) =24(18-36) =36 (18-72) =48 (36-72) =110 (66-160) =200(100-300) =300(200-400) =600(400-800) =800(600-1000)	12	50	84	DIM10001-600-xS05	DIM10001-1800-xS09	DIM10001-600-xS05J
DIM10001-700-xS28		28	25	85	DIM10001-700-xS12	DIM10001-1700-xS18	DIM10001-700-xS12J
DIM10001-800-xS15		15	53.3	87	DIM10001-800-xS15	DIM10001-1600-xS28	DIM10001-800-xS15J
DIM10001-900-xS24		24	37.5	87	DIM10001-900-xS24	DIM10001-1500-xS36	DIM10001-900-xS24J
DIM10001-1000-xD12		±12	41.6/41.6	84	DIM10001-1000-xD05	DIM10001-1400-xD09	DIM10001-1000-xD05J
DIM10001-1100-xD24		±24	22.9/22.9	85	DIM10001-1100-xD12	DIM10001-1300-xD18	DIM10001-1100-xD12J
DIM10001-1200-xD15		±15	40/40	85	DIM10001-1200-xD15	DIM10001-1200-xD24	DIM10001-1200-xD15J
DIM10001-1300-xE1212		12/12	54.1/54.1	84	DIM10001-1300-xE050	DIM10001-1100-xE121	DIM10001-1300-xE0505J
DIM10001-1400-xE1224		12/24	58.3/29.1	85	DIM10001-1400-xE051	DIM10001-1000-xE121	DIM10001-1400-xE0512J
DIM10001-1500-xE1228		12/28	62.5/26.7	85	DIM10001-1500-xE051	DIM10001-900-xE1824	DIM10001-1500-xE0515J
DIM10001-1600-xE2428		24/28	33.3/28.5	86	DIM10001-1600-xE052	DIM10001-800-xE2436	DIM10001-1600-xE0524J
DM10001-1700-xS12		12	141	85	DIM10001-1700-xS12	DIM10001-700-xS09	DIM10001-1700-xS12J
DIM10001-1800-xS15		15	120	86	DIM10001-1800-xS15	DIM10001-600-xS18	DIM10001-1800-xS15J
DIM10001-1700-xS28		28	60.7	88	DIM10001-1700-xS28	DIM10001-700-xS48	DIM10001-1900-xS28J
DIM10001-1600-xD12		±12	66.6/66.6	84	DIM10001-1600-xD05	DIM10001-800-xD18	DIM10001-1800-xD05J
DIM10001-1500-xD28		±28	26.7/26.7	85	DIM10001-1500-xD12	DIM10001-900-xD26	DIM10001-1700-xD12J
DIM10001-1400-xD15		±15	46.6/46.6	85	DIM10001-1400-xD15	DIM10001-1000-xD36	DIM10001-1600-xD15J
DIM10001-1300-xD24		±24	27/27	87	DIM10001-1300-xD24	DIM10001-1100-xD48	DIM10001-1500-xD24J
DIM10001-1200-xS12		12	100	84	DIM10001-1200-xS12	DIM10001-1200-xS09	DIM10001-1400-xS12J
DIM10001-1100-xS15		15	73.3	86	DIM10001-1100-xS15	DIM10001-1300-xS18	DIM10001-1300-xS15J
DIM10001-1000-xS24		24	41.6	86	DIM10001-1000-xS24	DIM10001-1400-xS29	DIM10001-1200-xS24J
DIM10001-900-xS28		28	32.1	88	DIM10001-900-xS28	DIM10001-1500-xS72	DIM10001-1100-xS28J
DIM10001-800-xD24		±24	16.6/16.6	88	DIM10001-800-xD24	DIM10001-1600-xD28	DIM10001-900-xD24J
DIM10001-700-xD12		±12	29.1/29.1	90	DIM10001-700-xD3	DIM10001-1700-xD48	DIM10001-800-xD36J
DIM10001-600-xS15		15	40	86	DIM10001-600-xS12	DIM10001-1800-xS24	DIM10001-700-xS15J
DIM10001-700-xS28		28	25	89	DIM10001-700-xS29	DIM10001-1700-xS36	DIM10001-600-xS28J
DIM10001-800-xS24		24	33.3	91	DIM10001-800-xS54	DIM10001-1600-xS48	DIM10001-700-xS72J

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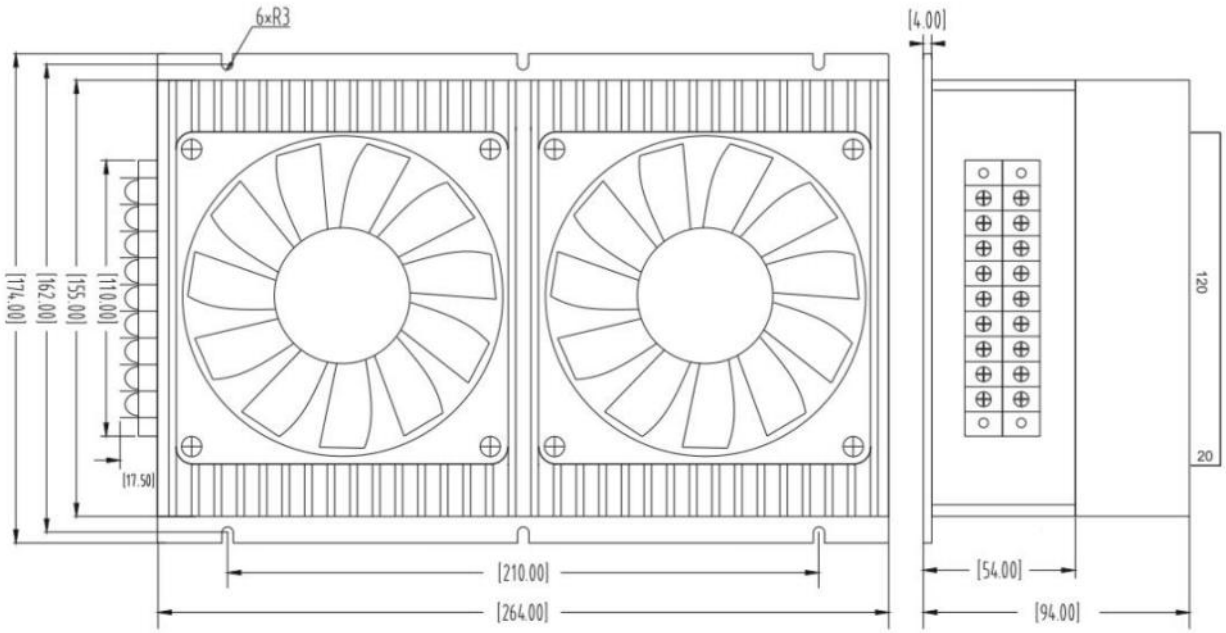

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CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Voltage Range**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	200VDC	100-300VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-800VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

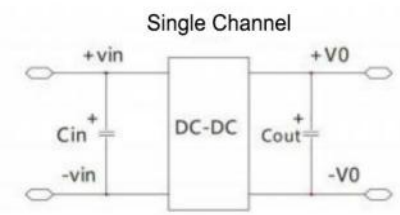
SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM10005-500-xS05	x =12 (9-18) =18(9-36) =24(18-36) =36 (18-72) =48 (36-72) =110 (66-160) =200(100-300) =300(200-400) =600(400-800) =800(600-1000)	5	100	84	DIM10005-500-xS05	DIM10005-1200-xS09	DIM10005-500-xS05J
DIM10005-600-xS12		12	50	85	DIM10005-700-xS12	DIM10005-1100-xS18	DIM10005-600-xS12J
DIM10005-700-xS24		24	29.1	87	DIM10005-800-xS15	DIM10005-1000-xS28	DIM10005-700-xS15J
DIM10005-800-xS28		28	28.5	87	DIM10005-900-xS24	DIM10005-900-xS36	DIM10005-800-xS24J
DIM10005-900-xD12		±12	37.5/37.5	84	DIM10005-1000-xD05	DIM10005-800-xD09	DIM10005-900-xD05J
DIM10005-1000-xD24		±24	20.8/20.8	85	DIM10005-1100-xD12	DIM10005-700-xD18	DIM10005-1000-xD12J
DIM10005-1100-xD28		±28	19.6/19.6	85	DIM10005-1200-xD15	DIM10005-600-xD24	DIM10005-1100-xD15J
DIM10005-1200-xE1212		12/12	50/50	84	DIM10005-1100-xE050	DIM10005-500-xE1215	DIM10005-1200-xE0505J
DIM10005-1100-xE1224		12/24	45.8/22.9	85	DIM10005-1000-xE051	DIM10005-700-xE1218	DIM10005-1100-xE0512J
DIM10005-1000-xE1228		12/28	41.6/17.8	85	DIM10005-900-xE0515	DIM10005-800-xE1824	DIM10005-1000-xE0515J
DIM10005-900-xE2428		24/28	18.7/16	86	DIM10005-800-xE0524	DIM10005-900-xE2436	DIM10005-900-xE0524J
DM10005-800-xS12		12	66.6	85	DIM10005-700-xS12	DIM10005-1000-xS09	DIM10005-800-xS12J
DIM10005-700-xS24		24	29.1	86	DIM10005-600-xS15	DIM10005-1100-xS18	DIM10005-700-xS15J
DIM10005-600-xS28		28	21.4	88	DIM10005-700-xS28	DIM10005-1200-xS48	DIM10005-600-xS28J
DIM10005-500-xD12		±12	20.8/20.8	84	DIM10005-800-xD05	DIM10005-1100-xD18	DIM10005-700-xD05J
DIM10005-600-xD24		±24	12.5/12.5	85	DIM10005-900-xD12	DIM10005-1000-xD26	DIM10005-800-xD12J
DIM10005-700-xD15		±15	23.3/23.3	85	DIM10005-1000-xD15	DIM10005-900-xD36	DIM10005-900-xD15J
DIM10005-800-xD28		±28	14.2/14.2	87	DIM10005-1100-xD24	DIM10005-800-xD48	DIM10005-1000-xD24J
DIM10005-900-xS12		12	75	84	DIM10005-1200-xS12	DIM10005-700-xS09	DIM10005-1100-xS12J
DIM10005-1000-xS15		15	66.6	86	DIM10005-1100-xS15	DIM10005-600-xS18	DIM10005-1200-xS15J
DIM10005-1100-xS24		24	45.8	86	DIM10005-1000-xS24	DIM10005-700-xS29	DIM10005-1100-xS24J
DIM10005-1200-xS28		28	42.8	88	DIM10005-900-xS28	DIM10005-800-xS72	DIM10005-1000-xS28J
DIM10005-1100-xD24		±24	22.9/22.9	88	DIM10005-800-xD24	DIM10005-900-xD28	DIM10005-900-xD24J
DIM10005-1000-xD36		±36	13.8/13.8	90	DIM10005-700-xD3	DIM10005-1000-xD48	DIM10005-800-xD36J
DIM10005-900-xS12		12	75	86	DIM10005-600-xS12	DIM10005-1100-xS24	DIM10005-700-xS15J
DIM10005-800-xS28		28	28.5	89	DIM10005-700-xS29	DIM10005-1200-xS36	DIM10005-600-xS28J
DIM10005-700-xS24		24	29.1	91	DIM10005-800-xS54	DIM10005-1000-xS48	DIM10005-700-xS72J

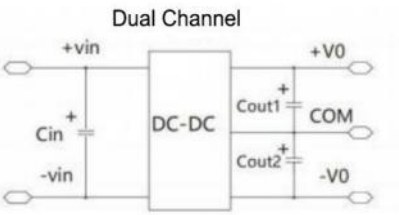
■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

Recommend Circuit





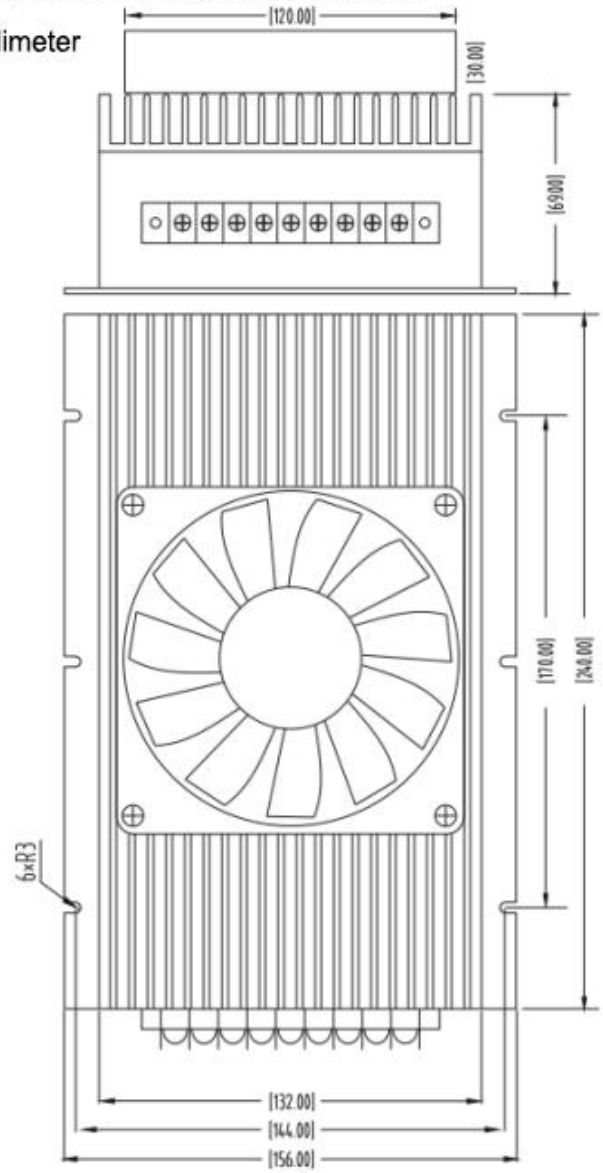
■Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended

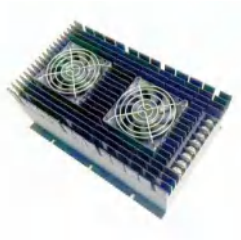
■If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure

Top surface is heat dissipation surface

Unit size is millimeter





- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Voltage Range**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	200VDC	100-300VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-800VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

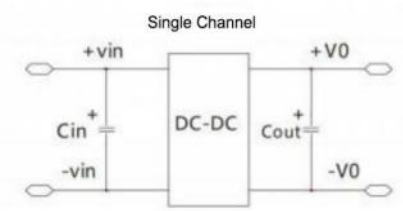
SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM10007-500-xS28	x =12 (9-18) =18(9-36) =24(18-36) =36 (18-72) =48 (36-72) =110 (66-160) =200(100-300) =300(200-400) =600(400-800) =800(600-1000)	28	17.8	88	DIM10007-500-xS05	DIM10007-1200-xS09	DIM10007-500-xS05J
DIM10007-600-xS12		12	50	85	DIM10007-600-xS12	DIM10007-1100-xS18	DIM10007-600-xS12J
DIM10007-700-xS15		15	46.6	87	DIM10007-700-xS15	DIM10007-1000-xS28	DIM10007-700-xS15J
DIM10007-800-xS24		24	33.3	87	DIM10007-800-xS24	DIM10007-900-xS36	DIM10007-800-xS24J
DIM10007-900-xD12		±12	37.5/37.5	84	DIM10007-900-xD05	DIM10007-800-xD09	DIM10007-900-xD05J
DIM10007-1000-xD24		±24	20.8/20.8	85	DIM10007-1000-xD12	DIM10007-700-xD18	DIM10007-1000-xD12J
DIM10007-1100-xD28		±28	19.6/19.6	85	DIM10007-1100-xD15	DIM10007-600-xD24	DIM10007-1100-xD15J
DIM10007-1200-xE1212		12/12	50/50	84	DIM10007-1200-xE050	DIM10007-500-xE1215	DIM10007-1200-xE0505J
DIM10007-1100-xE1224		12/24	45.8/22.9	85	DIM10007-1100-xE051	DIM10007-600-xE1218	DIM10007-1100-xE0512J
DIM10007-1000-xE1228		12/28	41.6/17.8	85	DIM10007-900-xE0515	DIM10007-700-xE1824	DIM10007-1000-xE0515J
DIM10007-900-xE2428		24/28	18.7/32.1	86	DIM10007-800-xE0524	DIM10007-800-xE2436	DIM10007-900-xE0524J
DM10007-800-xS12		12	66.6	85	DIM10007-700-xS12	DIM10007-900-xS09	DIM10007-800-xS12J
DIM10007-700-xS24		24	29.1	86	DIM10007-600-xS15	DIM10007-1000-xS18	DIM10007-700-xS15J
DIM10007-600-xS28		28	21.4	88	DIM10007-500-xS28	DIM10007-1100-xS48	DIM10005-600-xS28J
DIM10007-500-xD12		±12	20.8/20.8	84	DIM10007-600-xD05	DIM10007-1200-xD18	DIM10007-500-xD05J
DIM10007-600-xD28		±28	10.7/10.7	85	DIM10007-700-xD12	DIM10007-1100-xD26	DIM10007-600-xD12J
DIM10007-700-xD15		±15	23.3/23.3	85	DIM10007-800-xD15	DIM10007-1000-xD36	DIM10007-700-xD15J
DIM10007-800-xD24		±24	16.6/16.6	87	DIM10007-900-xD24	DIM10007-900-xD48	DIM10007-800-xD24J
DIM10007-900-xS12		12	75	84	DIM10007-1000-xS12	DIM10007-800-xS09	DIM10007-900-xS12J
DIM10007-1000-xS15		15	66.6	86	DIM10007-1100-xS15	DIM10007-700-xS18	DIM10007-1000-xS15J
DIM10007-1100-xS24		24	45.8	86	DIM10007-1200-xS24	DIM10007-600-xS29	DIM10007-1100-xS24J
DIM10007-1200-xS28		28	42.8	88	DIM10007-1100-xS28	DIM10007-700-xS72	DIM10007-1200-xS28J
DIM10007-1100-xD24		±24	22.9/22.9	88	DIM10007-1000-xD24	DIM10007-800-xD28	DIM10007-1000-xD24J
DIM10007-1000-xD28		±28	17.8/17.3	90	DIM10007-900-xD3	DIM10007-900-xD48	DIM10007-900-xD36J
DIM10007-900-xS12		12	75	86	DIM10007-800-xS12	DIM10007-1000-xS24	DIM10007-800-xS15J
DIM10007-800-xS28		28	28.5	89	DIM10007-700-xS29	DIM10007-1100-xS36	DIM10007-700-xS28J
DIM10007-700-xS24		24	29.1	91	DIM10007-600-xS54	DIM10007-1200-xS48	DIM10007-600-xS72J

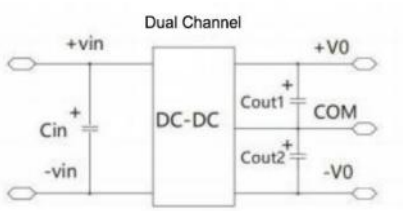
■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

Recommend Circuit

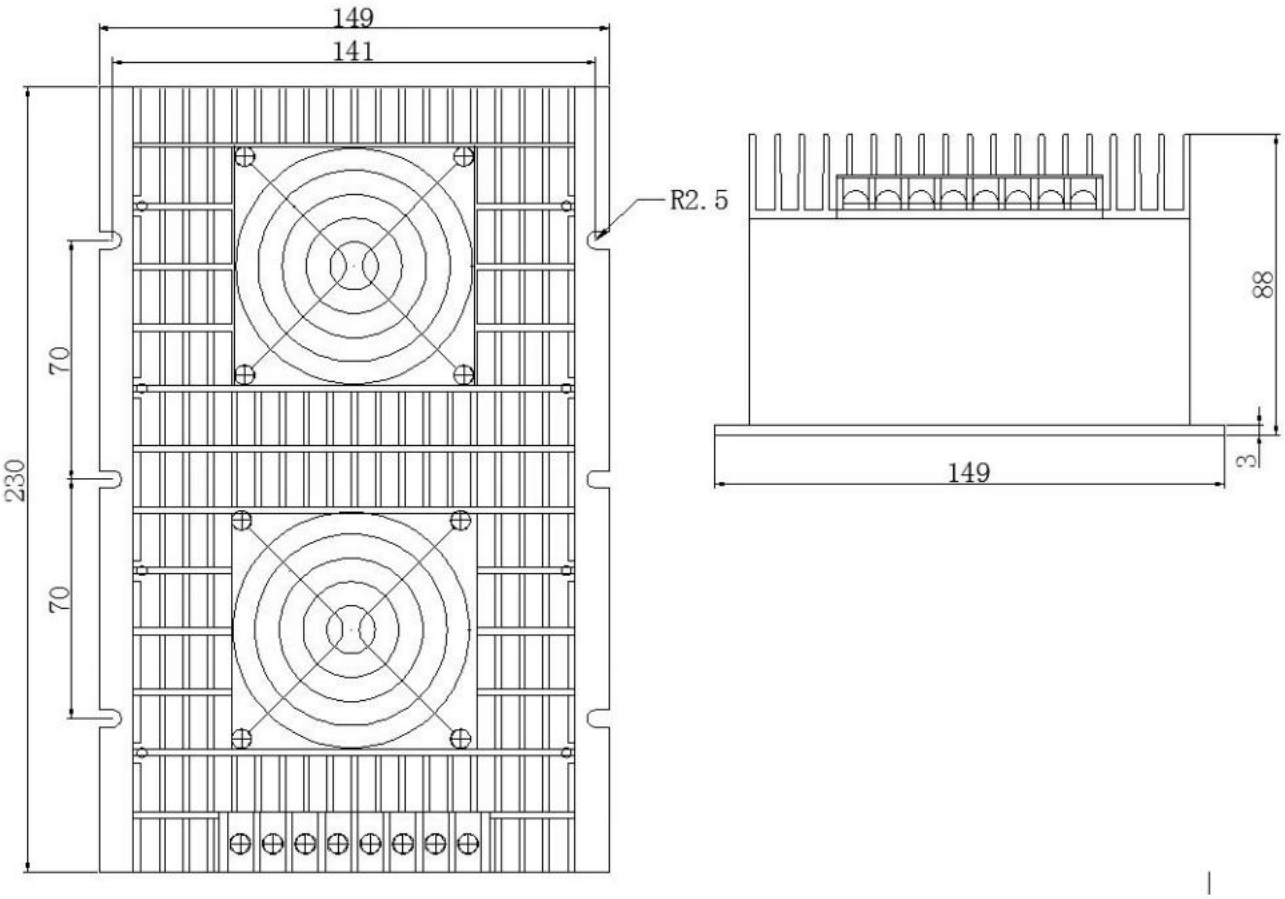


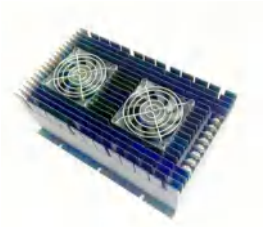


■Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended

■If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure





- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Voltage Range**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	200VDC	100-300VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-800VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

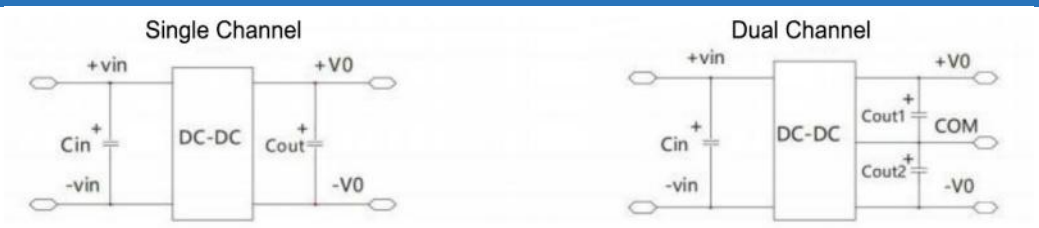
SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current (A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM12001-500-xS28	x =12 (9-18) =18(9-36) =24(18-36) =36 (18-72) =48 (36-72) =110 (66-160) =200(100-300) =300(200-400) =600(400-800) =800(600-1000)	28	17.8	88	DIM12001-500-xS05	DIM12001-1500-xS09	DIM12001-500-xS05J
DIM12001-600-xS12		12	50	85	DIM12001-600-xS12	DIM12001-1400-xS18	DIM12001-600-xS12J
DIM12001-700-xS15		15	46.6	87	DIM12001-700-xS15	DIM12001-1300-xS28	DIM12001-700-xS15J
DIM12001-800-xS24		24	33.3	87	DIM12001-800-xS24	DIM12001-1200-xS36	DIM12001-800-xS24J
DIM12001-900-xD12		±12	37/37	84	DIM12001-900-xD05	DIM12001-1100-xD09	DIM12001-900-xD05J
DIM12001-1000-xD24		±24	21/21	85	DIM12001-1000-xD12	DIM12001-1000-xD18	DIM12001-1000-xD12J
DIM12001-1100-xD28		±28	20/20	85	DIM12001-1100-xD15	DIM12001-900-xD24	DIM12001-1200-xD15J
DIM12001-800-xE1212		12/12	34/34	84	DIM12001-1200-xE050	5DIM12001-800-xE1215	DIM12001-1300-xE0505J
DIM12001-1200-xE1224		12/24	50/25	85	DIM12001-1300-xE051	2DIM12001-700-xE1218	DIM12001-1400-xE0512J
DIM12001-1300-xE1228		12/28	63/27	85	DIM12001-1400-xE051	5DIM12001-600-xE1824	DIM12001-1500-xE0515J
DIM12001-1400-xE2428		24/28	30/25	86	DIM12001-1500-xE052	4DIM12001-500-xE2436	DIM12001-1400-xE0524J
DM12001-1500-xS12		12	125	85	DIM12001-1400-xS12	DIM12001-600-xS09	DIM12001-1300-xS12J
DIM12001-1400-xS24		24	58.3	86	DIM12001-1300-xS15	DIM12001-700-xS18	DIM12001-1200-xS15J
DIM12001-1300-xS28		28	46.4	88	DIM12001-1200-xS28	DIM12001-800-xS48	DIM12001-1100-xS28J
DIM12001-1200-xD12		±12	50/50	84	DIM12001-1100-xD05	DIM12001-900-xD18	DIM12001-900-xD05J
DIM12001-1000-xD24		±24	21/21	85	DIM12001-1000-xD12	DIM12001-1000-xD26	DIM12001-800-xD12J
DIM12001-900-xD15		±15	30/30	85	DIM12001-900-xD15	DIM12001-1100-xD36	DIM12001-700-xD15J
DIM12001-800-xD28		±28	14/14	87	DIM12001-800-xD24	DIM12001-1200-xD48	DIM12001-600-xD24J
DIM12001-700-xS12		12	58.3	84	DIM12001-700-xS12	DIM12001-1300-xS09	DIM12001-700-xS12J
DIM12001-600-xS15		15	40	86	DIM12001-600-xS15	DIM12001-1400-xS18	DIM12001-800-xS15J
DIM12001-500-xS24		24	20.8	86	DIM12001-500-xS24	DIM12001-1500-xS29	DIM12001-900-xS24J
DIM12001-600-xS28		28	21.4	88	DIM12001-600-xS28	DIM12001-1400-xS72	DIM12001-1000-xS28J
DIM12001-700-xD24		±24	15/15	88	DIM12001-700-xD24	DIM12001-1300-xD28	DIM12001-1100-xD24J
DIM12001-950-xD28		±28	17/17	90	DIM12001-800-xD3	DIM12001-1200-xD48	DIM12001-1200-xD36J
DIM12001-1000-xS15		15	66.6	86	DIM12001-900-xS12	DIM12001-1100-xS24	DIM12001-1300-xS15J
DIM12001-1250-xS24		24	52	89	DIM12001-1000-xS29	DIM12001-1000-xS36	DIM12001-1400-xS28J
DIM12001-1500-xS28		28	54	91	DIM12001-1100-xS54	DIM12001-900-xS48	DIM12001-1500-xS72J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

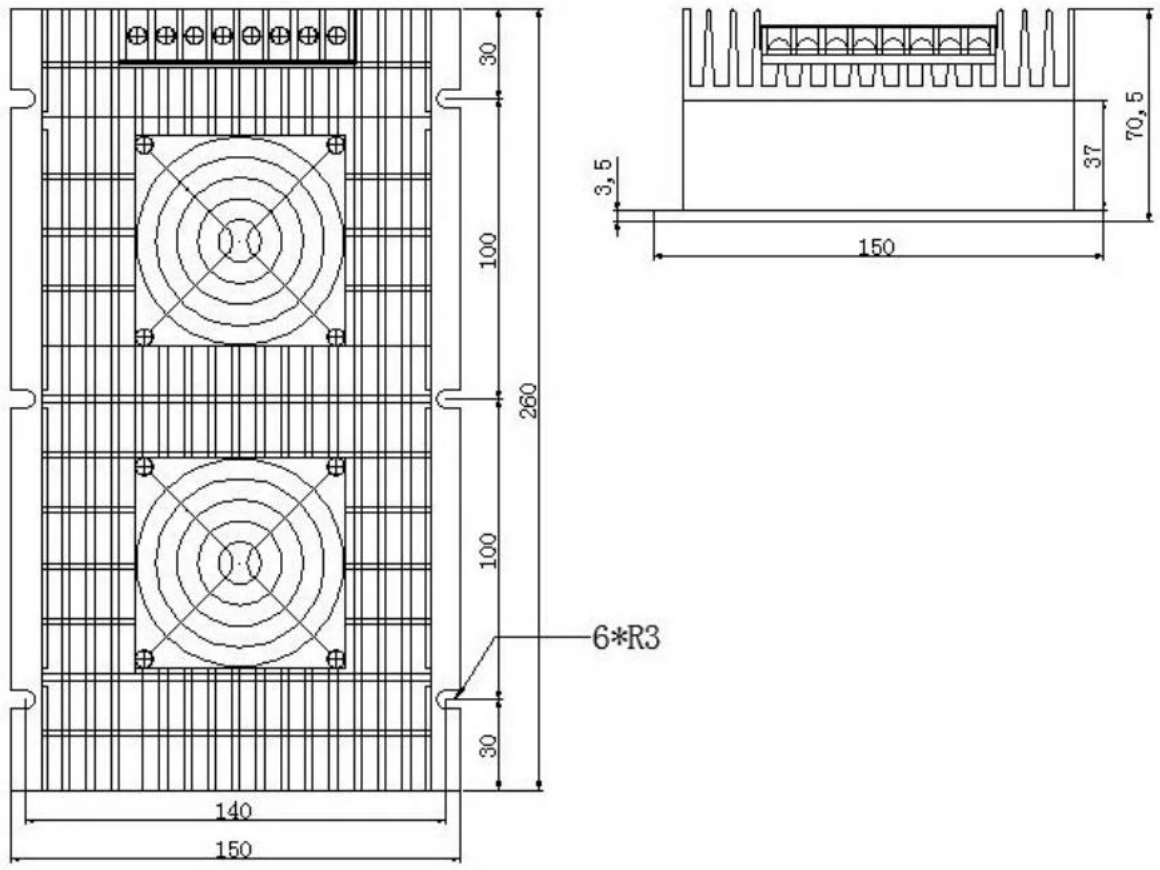
Recommend Circuit



■Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended

■If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure



- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Voltage Range**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	200VDC	100-300VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-800VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

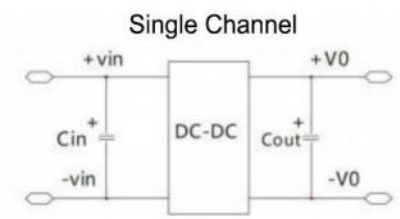
SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current (A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM18001-900-xS12	x =12(9-18) =18(9-36) =24(18-36) =36(18-72) =48(36-72) =110(66-160) =200(100-300) =300 (200-400 =600(400-800 =800(600-1000	12	75	84	DIM18001-900-xS12	DIM18001-2000-xS19	DIM18001-900-xS12J
DIM18001-1000-xS15		15	66.6	85	DIM18001-1000-xS15	DIM18001-1900-xS28	DIM18001-1000-xS15J
DIM18001-1100-xS24		24	45.8	87	DIM18001-1100-xS18	DIM18001-1800-xS32	DIM18001-1100-xS18J
DIM18001-1200-xS28		28	42.8	87	DIM18001-1200-xS24	DIM18001-1700-xS48	DIM18001-1200-xS24J
DIM18001-1300-xS110		110	11.8	91	DIM18001-1300-xS110	DIM18001-1600-xS72	DIM18001-1300-xS110J
DIM18001-1400-xS220		220	6.36	92	DIM18001-1400-xS220	DIM18001-1500-xS90	DIM18001-1400-xS220
DIM18001-1500-xS12		12	125	85	DIM18001-1500-xS12	DIM18001-1400-xS18	DIM18001-1500-xS12J
DIM18001-1600-xS15		15	107	85	DIM18001-1600-xS15	DIM18001-1300-xS25	DIM18001-1600-xS15J
DIM18001-1700-xS24		24	70.8	87	DIM18001-1700-xS24	DIM18001-1200-xS32	DIM18001-1700-xS24J
DIM18001-1800-xS28		28	64.2	88	DIM18001-1800-xS36	DIM18001-1100-xS72	DIM18001-1800-xS36J
DIM18001-1900-xS48		48	39.5	90	DIM18001-1900-xS48	DIM18001-1000-xS90	DIM18001-1900-xS48J
DIM18001-2000-xS110		110	18.1	91	DIM18001-2000-xS110	DIM18001-900-xS220	DIM18001-2000-xS110J
DIM18001-1900-xD12		±12	79/79	84	DIM18001-1900-xD12	DIM18001-1000-xD18	DIM18001-1900-xD12J
DIM18001-1800-xD24		±24	38/38	86	DIM18001-1800-xD28	DIM18001-1100-xD36	DIM18001-1800-xD28J
DIM18001-1700-xD28		±28	31/31	89	DIM18001-1700-xD48	DIM18001-1200-xD72	DIM18001-1700-xD48J
DIM18001-1600-xE1224		12/24	67/34	85	DIM18001-1600-xE1224	DIM18001-1300-xE1515	DIM18001-1600-xE1224J
DIM18001-1500-xE2428		24/28	32/27	86	DIM18001-1500-xE2448	DIM18001-1400-xE2436	DIM18001-1500-xE2448J
DIM18001-1400-xE1228		12/28	59/25	87	DIM18001-1400-xE2836	DIM18001-1500-xE3648	DIM18001-1400-xE2836J
DIM18001-1300-xS12		12	108	85	DIM18001-1300-xS18	DIM18001-1600-xS27	DIM18001-1300-xS18J
DIM18001-1200-xS24		24	50	86	DIM18001-1200-xS24	DIM18001-1700-xS32	DIM18001-1200-xS24J
DIM18001-1100-xS28		28	40	88	DIM18001-1100-xS36	DIM18001-1800-xS48	DIM18001-1100-xS36J
DIM18001-1000-xS110		110	9	90	DIM18001-1000-xS110	DIM18001-1900-xS220	DIM18001-1000-xS110J
DIM18001-900-xD24		±24	19/19	88	DIM18001-900-xD24	DIM18001-2000-xD28	DIM18001-9000-xD24J
DIM18001-1000-xD28		±28	18/18	88	DIM18001-1000-xD36	DIM18001-1900-xD72	DIM18001-1000-xD36J
DIM18001-1100-xS24		24	46	86	DIM18001-1100-xS24	DIM18001-2000-xS36	DIM18001-1100-xS24J
DIM18001-1200-xS48		48	25	89	DIM18001-1200-xS48	DIM18001-1900-xS90	DIM18001-1200-xS48J
DIM18001-1100-xS72		72	15	91	DIM18001-1300-xS72	DIM18001-2000-xS110	DIM18001-1300-xS72J
DIM18001-1200-xE1224		12/24	50/25	85	DIM18001-1400-xE1224	DIM18001-1900-xE2424	DIM18001-1400-xE1224J
DIM18001-1300-xE1228		12/28	54/23	88	DIM18001-1300-xE1524	DIM18001-1800-xE2436	DIM18001-1500-xE1524J
DIM18001-1500-xE2428		24/28	31/27	90	DIM18001-1200-xE2448	DIM18001-1700-xE3672	DIM18001-1600-xE2448J

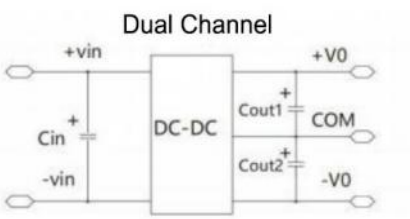
■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

Recommend Circuit

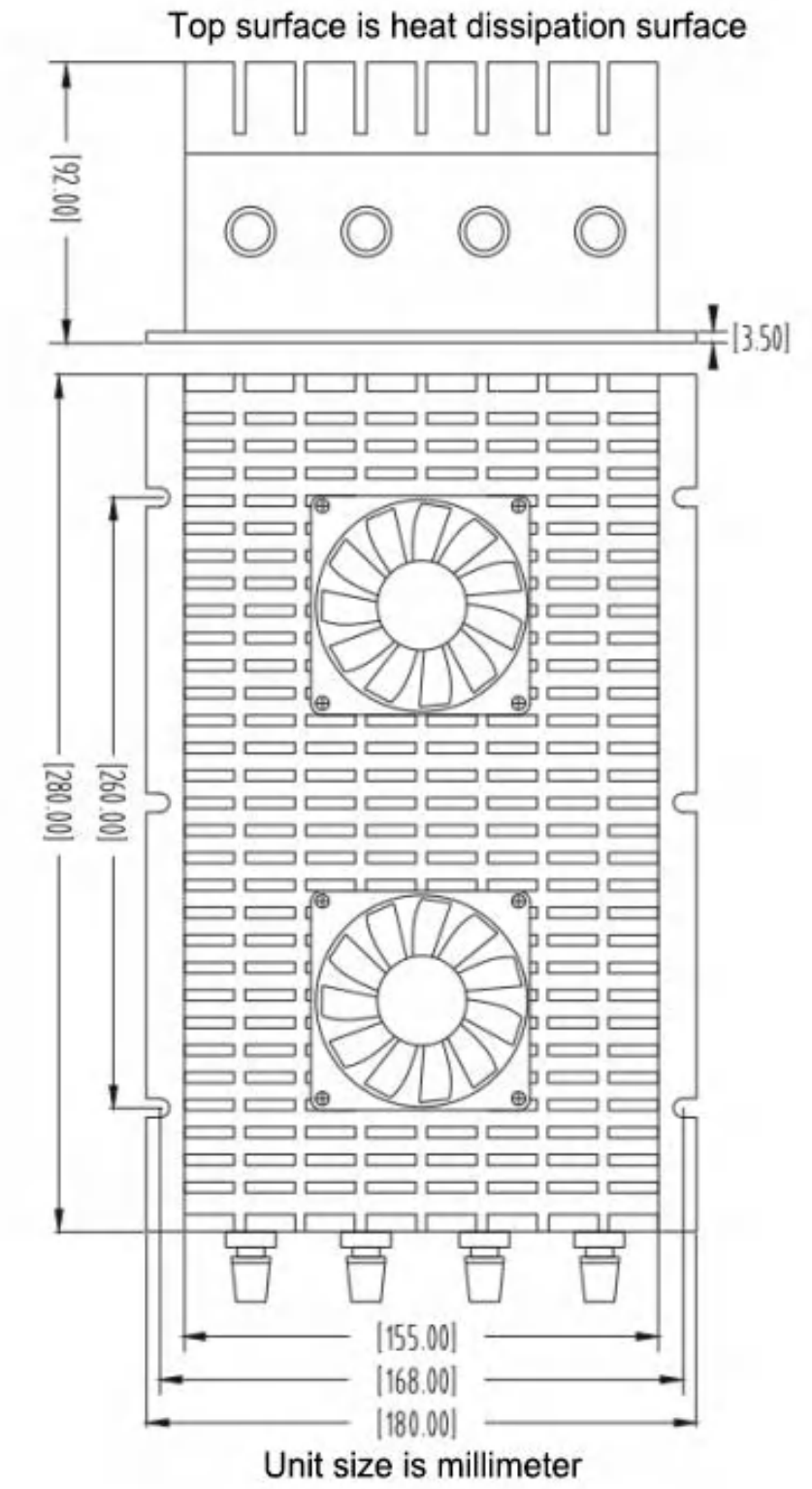




■Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended

■If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure



- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
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- Advanced circuit topology and high conversion efficiency
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- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic

Test Item	Test Condition	Min	Rated	Max	Unit
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic

	Rated Value	Voltage Range	Rated Value	Voltage Range
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	200VDC	100-300VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-800VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic

Test Item	Test Condition	Min	Rated	Max	Unit
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic

Test Item	Test Condition	Min	Rated	Max	Unit
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current (A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM18002-800-xS12	x =12(9-18) =18(9-36) =24(18-36) =36(18-72) =48(36-72) =110(66-160) =200(100-300) =300 (200-400 =600(400-800 =800(600-1000	12	66.6	84	DIM18002-800-xS12	DIM18002-1800-xS19	DIM18002-800-xS12J
DIM18002-900-xS15		15	60	85	DIM18002-900-xS15	DIM18002-1700-xS28	DIM18002-900-xS15J
DIM18002-1000-xS28		28	35.7	87	DIM18002-1000-xS18	DIM18002-1600-xS32	DIM18002-1000-xS18J
DIM18002-1100-xS24		24	45.8	87	DIM18002-1100-xS24	DIM18002-1500-xS48	DIM18002-1100-xS24J
DIM18002-1200-xS110		110	10.9	91	DIM18002-1200-xS110	DIM18002-1400-xS72	DIM18002-1200-xS110J
DIM18002-1300-xS220		220	10.8	92	DIM18002-1300-xS220	DIM18002-1300-xS90	DIM18002-1300-xS220
DIM18002-1400-xS12		12	116.6	85	DIM18002-1400-xS12	DIM18002-1200-xS18	DIM18002-1400-xS12J
DIM18002-1500-xS15		15	100	85	DIM18002-1500-xS15	DIM18002-1100-xS25	DIM18002-1500-xS15J
DIM18002-1600-xS24		24	66.6	87	DIM18002-1600-xS24	DIM18002-1000-xS32	DIM18002-1600-xS24J
DIM18002-1700-xS28		28	60.7	88	DIM18002-1700-xS36	DIM18002-900-xS72	DIM18002-1700-xS36J
DIM18002-1800-xS48		48	37.5	90	DIM18002-1800-xS48	DIM18002-1000-xS90	DIM18002-1800-xS48J
DIM18002-1700-xS110		110	15.4	91	DIM18002-1700-xS110	DIM18002-1100-xS220	DIM18002-1700-xS110J
DIM18002-1600-xD12		±12	67/67	84	DIM18002-1600-xD12	DIM18002-1200-xD18	DIM18002-1600-xD12J
DIM18002-1500-xD24		±24	31/31	86	DIM18002-1500-xD28	DIM18002-1100-xD36	DIM18002-1500-xD28J
DIM18002-1400-xD28		±28	25/25	89	DIM18002-1400-xD48	DIM18002-1200-xD72	DIM18002-1400-xD48J
DIM18002-1300-xE1212		12/12	54/54	85	DIM18002-1300-xE1224	DIM18002-1300-xE1515	DIM18002-1300-xE1224J
DIM18002-1200-xE1224		24/48	50/25	86	DIM18002-1200-xE2448	DIM18002-1400-xE2436	DIM18002-1200-xE2448J
DIM18002-1100-xE2428		24/28	23/20	87	DIM18002-1100-xE2836	DIM18002-1500-xE3648	DIM18002-1100-xE2836J
DIM18002-1000-xS28		28	35.7	85	DIM18002-1000-xS18	DIM18002-1600-xS27	DIM18002-1000-xS18J
DIM18002-1100-xS24		24	45.8	86	DIM18002-900-xS24	DIM18002-1700-xS32	DIM18002-900-xS24J
DIM18002-1000-xS48		48	20.8	88	DIM18002-1000-xS36	DIM18002-1800-xS48	DIM18002-1000-xS36J
DIM18002-900-xS110		110	8.2	90	DIM18002-1100-xS110	DIM18002-1700-xS220	DIM18002-1000-xS110J
DIM18002-1000-xD24		±24	21/21	88	DIM18002-1200-xD24	DIM18002-1600-xD28	DIM18002-1100-xD24J
DIM18002-1100-xD28		±28	20/20	88	DIM18002-1300-xD36	DIM18002-1500-xD72	DIM18002-1200-xD36J
DIM18002-1200-xS24		24	50	86	DIM18002-1400-xS24	DIM18002-1400-xS36	DIM18002-1300-xS24J
DIM18002-1200-xS28		28	42.8	89	DIM18002-1500-xS48	DIM18002-1300-xS90	DIM18002-1400-xS48J
DIM18002-1300-xS72		72	18	91	DIM18002-1600-xS72	DIM18002-1200-xS110	DIM18002-1500-xS72J
DIM18002-1400-xE1224		12/24	58/29	85	DIM18002-1700-xE1224	DIM18002-1100-xE2424	DIM18002-1600-xE1224J
DIM18002-1500-xE1228		12/28	63/27	88	DIM18002-1800-xE1524	DIM18002-900-xE2436	DIM18002-1700-xE1524J
DIM18002-1600-xE2428		24/28	33/29	90	DIM18002-1700-xE2448	DIM18002-1000-xE3672	DIM18002-1800-xE2448J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

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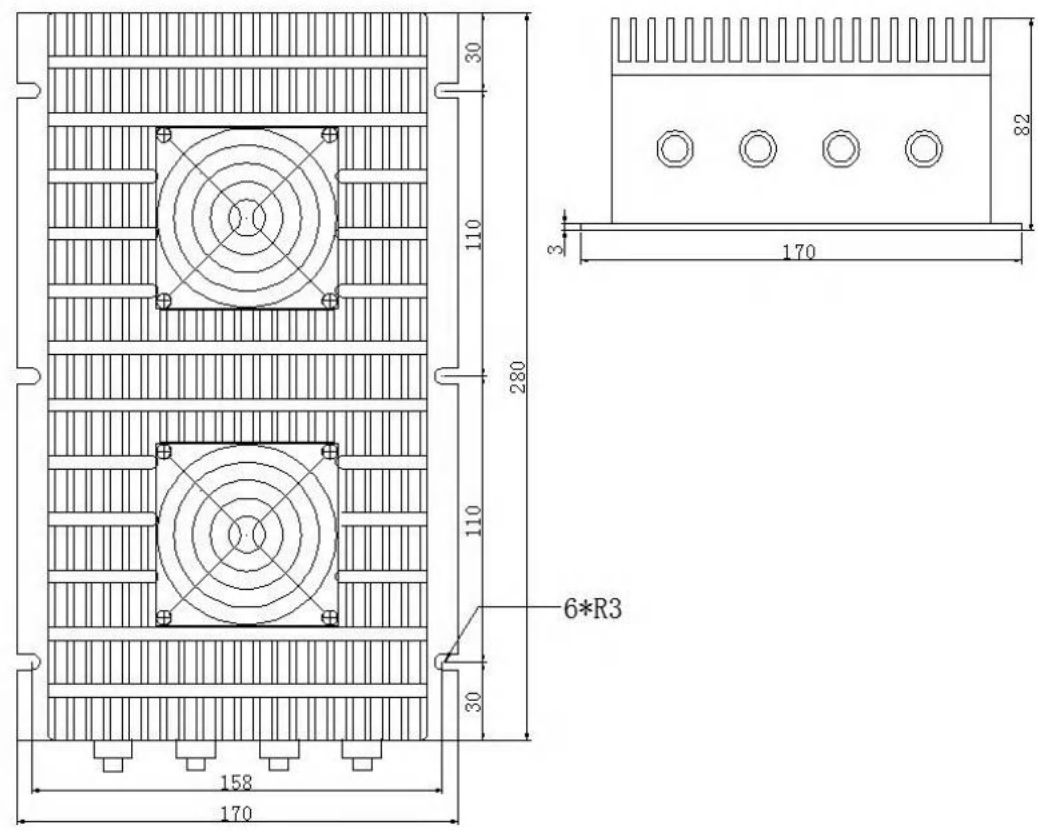
Mechanical Dimensions Figure



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- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Voltage Range**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	200VDC	100-300VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-800VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

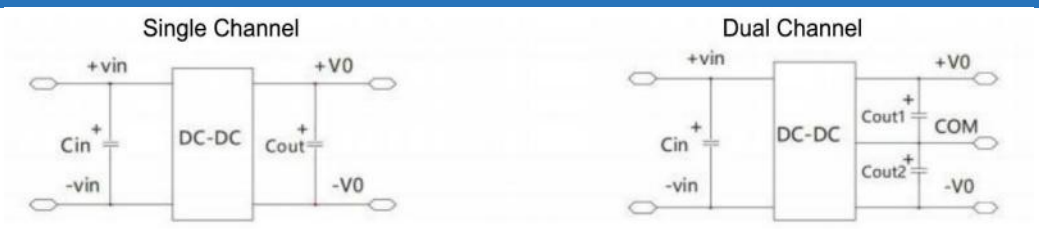
SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current (A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM20001-800-xS12	x =12(9-18) =18(9-36) =24(18-36) =36(18-72) =48(36-72) =110(66-160) =200(100-300) =300 (200-400 =600(400-800 =800(600-1000	12	66.6	84	DIM20001-800-xS12	DIM20001-2000-xS19	DIM20001-800-xS12J
DIM20001-900-xS15		15	60	85	DIM20001-900-xS15	DIM20001-1900-xS28	DIM20001-900-xS15J
DIM20001-1000-xS28		28	35.7	87	DIM20001-1000-xS18	DIM20001-1800-xS32	DIM20001-1000-xS18J
DIM20001-1100-xS24		24	45.8	87	DIM20001-1100-xS24	DIM20001-1700-xS48	DIM20001-1100-xS24J
DIM20001-1200-xS110		110	10.9	91	DIM20001-1200-xS110	DIM20001-1600-xS72	DIM20001-1200-xS110J
DIM20001-1300-xS220		220	5.9	92	DIM20001-1300-xS220	DIM20001-1500-xS90	DIM20001-1300-xS220
DIM20001-1400-xS12		12	116	85	DIM20001-1400-xS12	DIM20001-1400-xS18	DIM20001-1400-xS12J
DIM20001-1500-xS15		15	100	85	DIM20001-1500-xS15	DIM20001-1300-xS25	DIM20001-1500-xS15J
DIM20001-1600-xS24		24	66.6	87	DIM20001-1400-xS24	DIM20001-1200-xS32	DIM20001-1600-xS24J
DIM20001-1700-xS28		28	60.7	88	DIM20001-1300-xS36	DIM20001-1100-xS72	DIM20001-1700-xS36J
DIM20001-1800-xS48		48	37.5	90	DIM20001-1200-xS48	DIM20001-1000-xS90	DIM20001-1800-xS48J
DIM20001-1900-xS110		110	17.2	91	DIM20001-1100-xS110	DIM20001-900-xS220	DIM20001-1900-xS110J
DIM20001-2000-xD12		±12	83/83	84	DIM20001-1000-xD12	DIM20001-800-xD18	DIM20001-2000-xD12J
DIM20001-1900-xD24		±24	40/40	86	DIM20001-900-xD28	DIM20001-900-xD36	DIM20001-1900-xD28J
DIM20001-1800-xD28		±28	32/32	89	DIM20001-800-xD48	DIM20001-1000-xD72	DIM20001-1800-xD48J
DIM20001-1700-xE1224		12/24	70/35	85	DIM20001-900-xE1224	DIM20001-1100-xE1515	DIM20001-1700-xE1224J
DIM20001-1600-xE2428		24/28	33/29	86	DIM20001-1000-xE2448	DIM20001-1200-xE2436	DIM20001-1600-xE2448J
DIM20001-1500-xE2836		28/36	27/24	87	DIM20001-1100-xE2836	DIM20001-1300-xE3648	DIM20001-1500-xE2836J
DIM20001-1400-xS28		28	50	85	DIM20001-1200-xS18	DIM20001-1400-xS27	DIM20001-1400-xS18J
DIM20001-1300-xS24		24	54	86	DIM20001-1300-xS24	DIM20001-1500-xS32	DIM20001-1300-xS24J
DIM20001-1200-xS36		36	33.3	88	DIM20001-1400-xS36	DIM20001-1600-xS48	DIM20001-1200-xS36J
DIM20001-1100-xS110		110	9.0	90	DIM20001-1500-xS110	DIM20001-1700-xS220	DIM20001-1100-xS110J
DIM20001-1000-xD24		±24	21/20	88	DIM20001-1600-xD24	DIM20001-1800-xD28	DIM20001-1000-xD24J
DIM20001-900-xD28		±28	16/6	88	DIM20001-1700-xD36	DIM20001-1900-xD72	DIM20001-900-xD36J
DIM20001-800-xS24		24	33.3	86	DIM20001-1800-xS24	DIM20001-2000-xS36	DIM20001-800-xS24J
DIM20001-900-xS48		48	17.8	89	DIM20001-1900-xS48	DIM20001-1900-xS90	DIM20001-900-xS48J
DIM20001-1000-xS28		28	35.7	91	DIM20001-2000-xS72	DIM20001-1800-xS110	DIM20001-1000-xS72J
DIM20001-1100-xE1224		12/24	46/23	85	DIM20001-1900-xE1224	DIM20001-1700-xE2424	DIM20001-1100-xE1224J
DIM20001-1200-xE1228		15/24	50/21	88	DIM20001-1800-xE1524	DIM20001-1600-xE2436	DIM20001-1200-xE1524J
DIM20001-1300-xE2428		24/28	27/23	90	DIM20001-1700-xE2448	DIM20001-1500-xE3672	DIM20001-1300-xE2448J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

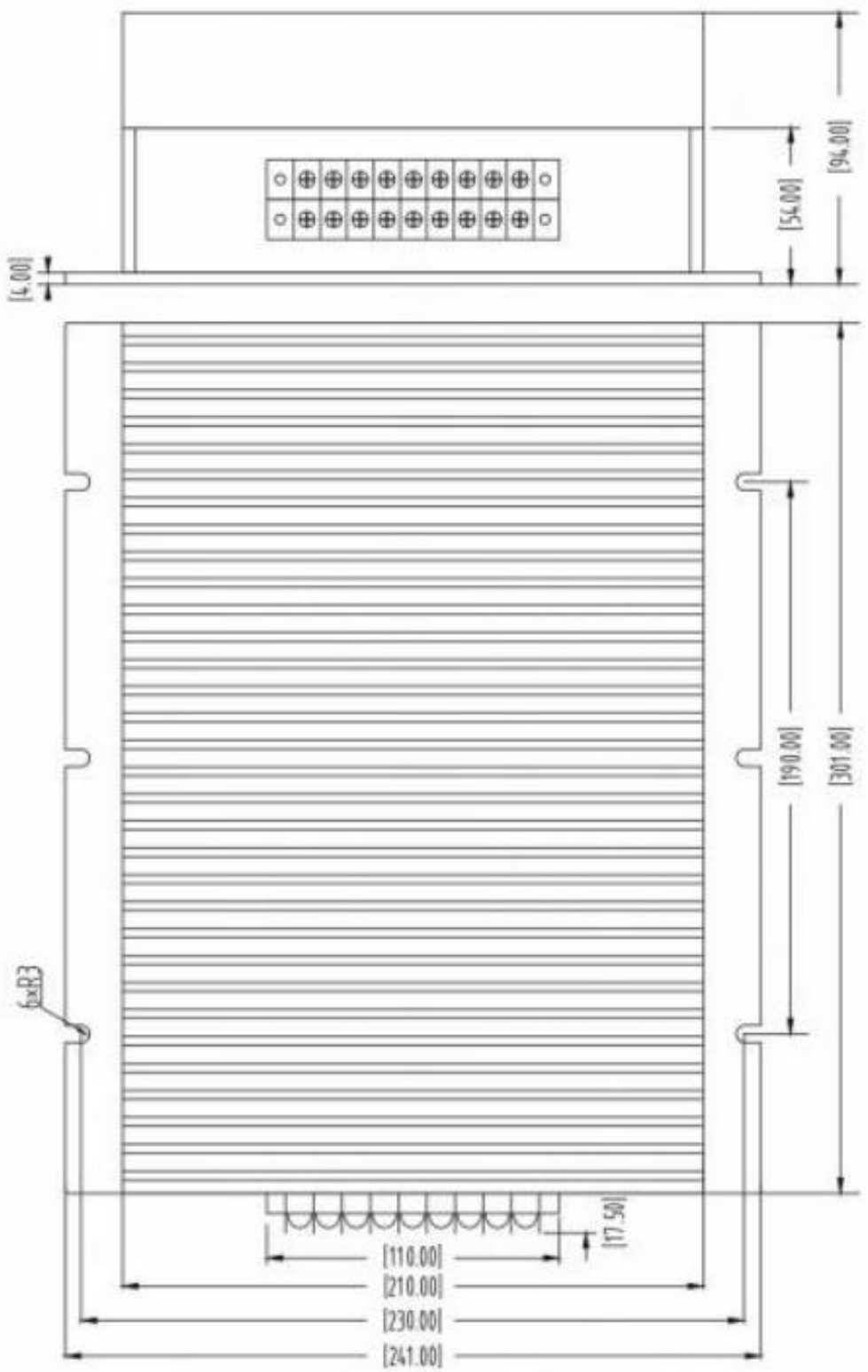
Recommend Circuit

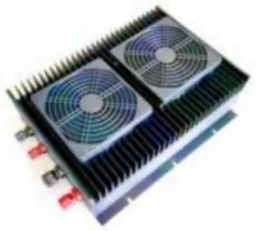


■Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended

■If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure





- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems,

CeneralCharacteristic

Test Item	Test Condition	Min	Rated	Max	Unit
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic

	Rated Value	Voltage Range
intput volts	100VAC	30-100VAC
	400VAC	200-400VAC
	1000VAC	200-1000VAC
	2000VAC	800-2000VAC
		非标输入电压范围请咨询客服

OutputCharacteristic

Test Item	Test Condition	Min	Rated	Max	Unit
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	10	200	300	KHz

EnvironmentCharacteristic

Test Item	Test Condition	Min	Rated	Max	Unit
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

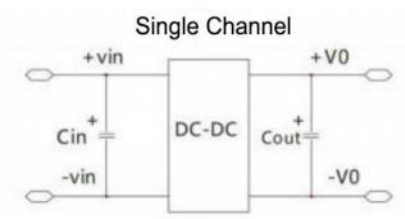
SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM30001-2000-xS12	x =100(30-100) =400(200-400) =1000 (200-1000 =2000(800-2000)	12	167	86	DIM30001-2000-xS12	DIM30001-4000-xS18	DIM30001-2000-xS12J
DM30001-2200-xS24		24	91.6	87	DIM30001-2200-xS15	DIM30001-3800-xD27.8	DIM30001-2200-xS15J
DIM30001-2400-xS28		28	85.7	89	DIM30001-2400-xS28	DIM30001-3600-xD32	DIM30001-2400-xS28J
DIM30001-2600-xD24		±24	54/54	90	DIM30001-2600-xD36	DIM30001-3400-xD50	DIM30001-2600-xD36J
DIM30001-2800-xD28		±28	50/50	91	DIM30001-2800-xD48	DIM30001-3200-xD72	DIM30001-2800-xD48J
DIM30001-3000-xS110		110	27.3	91	DIM30001-3000-xS110	DIM30001-3000-xS90	DIM30001-3000-xS110J
DIM30001-3200-xS220		220	14.5	91	DIM30001-3200-xS220	DM30001-2800-xS35	DIN30001-3200-x5220J
DIM30001-3400-xE1212		12/12	142/142	86	DIM30001-3400-xE0912	DIM30001-2600-xE1212	DIM30001-3400-xE0912J
DIM30001-3600-xE1224		12/24	150/75	87	DIM30001-3600-xE1215	DM30001-2400-xE1224	IM30001-3600-xE1215J
DIM30001-3800-xE2428		24/28	79/68	87	DIM30001-3800-xE1524	DIM30001-2200-xE2436	IM30001-3800-xE1524J
DIM30001-4000-xE2424		24/24	83/83	88	DIM30001-4000-xE122024	DIM30001-2000-xE121524	NM30001-4000-xE122024J
DIM30001-3800-xE2428		24/28	79/68	88	DIM30001-3800-xE122436	DIM30001-2200-xE152448	NM30001-3800-xE122436
DIM30001-3600-xS12		12	300	86	DIM30001-3600-xS12	DIM30001-2400-xS18	DIM30001-3600-xS12J
DIM30001-3400-xS24		24	142	88	DIM30001-3400-xS24	DIM30001-2600-xS32	DIM30001-3400-xS24
DIM30001-3200-xS28		28	114/114	90	DIM30001-3000-xS48	DIM30001-2800-xS36	DIM30001-3200-xS48J
DIM30001-3000-xS110		110	27.2	91	DIM30001-2800-xS110	DIM30001-3000-xS72	DIM30001-3000-xS110J
DIM30001-2800-xS220		220	12.7	91	DIM30001-2600-xS220	DM30001-3200-xS300	DM30001-2800-xS220J
DIM30001-2600-xE1224		12/24	108/54	86	DIM30001-2400-xE1224	DIM30001-3400-xE1524	DIM30001-2600-xE1224J
DIM30001-2400-xE2428		24/28	50/86	88	DIM30001-2200-xE2436	DIM30001-3600-xE2448	IM30001-2400-xE2436J
DIM30001-2200-xS12		12	183	86	DIM30001-2000-xS12	DIM30001-3800-xS18	DIM30001-2200-xS12
DIM30001-2000-xS28		28	71.4	89	DIM30001-2200-xS36	DIM30001-4000-xS24	DIM30001-2000-xS28J
DIM30001-2200-xS48		48	45.8	90	DIM30001-2400-xS72	DIM30001-3800-xS48	DM30001-2200-xS72
DIM30001-2400-xS110		110	21.8	91	DIM30001-2600-xS110	DIM30001-3600-xS280	DIM30001-2400-xS110J
DIM30001-2600-xS220		220	11.8	91	DIM30001-2800-xS220	DM30001-3400-xS350	DIM30001-2600-xS220J
DIM30001-2800-xS24		24	117	86	DIM30001-3000-xS48	DIM30001-3200-xS28	DM30001-2800-xS24
DM30001-3000-xS28		28	107	86	DIM30001-3200-xS72	DIM30001-3000-xS32	DIM30001-3000-xS48J
DIM30001-3200-xS48		48	66.6	89	DIM30001-3400-xS110	DIM30001-2800-xS36	DIM30001-3200-xS72
DIM30001-3400-xS110		110	31	91	DIM30001-3600-xS220	DM30001-2600-xS220	DIM30001-3400-xS110J
DIM30001-3600-xE2424		24/24	75/75	87	DIM30001-3800-xE1224	DM30001-2400-xE1524	IM30001-3600-xE1224J
DIM30001-3800-xE2428		24/28	79/68	89	DIM30001-4000-xE2448	DIM30001-2200-xE3672	IM30001-3800-xE2448J

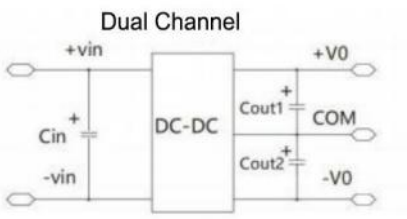
■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

■Only typical models are listed. If the parameters you need are not found in our selection guide, please contact us after determining the power, input and output voltage.

Recommend Circuit

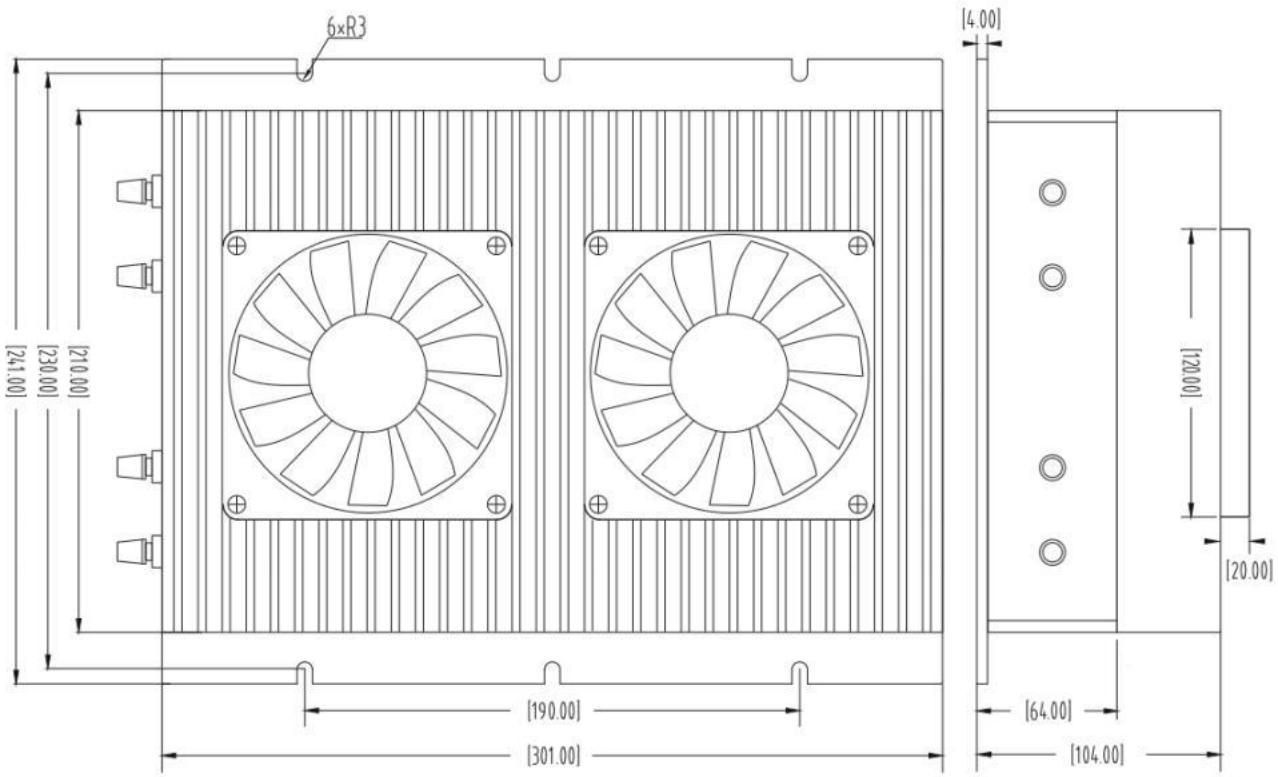




■Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended

■If the module is connected to a digital circuit, add cout, cout1, cout2

Mechanical Dimensions Figure



- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic

Test Item	Test Condition	Min	Rated	Max	Unit
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic

	Rated Value	Voltage Range	Rated Value	Voltage Range
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	200VDC	100-300VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-800VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic

Test Item	Test Condition	Min	Rated	Max	Unit
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

EnvironmentCharacteristic

Test Item	Test Condition	Min	Rated	Max	Unit
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current(A)	Typ (%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM40001-2000-xS12	x=18(9-36) =24(18-36) =36(18-72) =48(36-72) =110 (66-160 =200(100-300) =300(200-400) =600(400-800) =800(600-1000)	12	166.6	85	DIM40001-2000-xS12	DIM40001-6000-xS18	DIM40001-2000-xS12J
DIM40001-2500-xS13.8		13.8	181	85	DIM40001-2500-xS13.8	DIM40001-5500-xS32	DIM40001-2500-xS13.8.
DIM40001-3000-xS15		15	200	87	DIM40001-3000-xS15	DIM40001-5000-xS36	DIM40001-3000-xS15J
DIM40001-3500-xS24		24	145.8	87	DIM40001-3500-xS24	DIM40001-4500-xS45	DIM40001-3500-xS24J
DIM40001-4000-xS28		28	142.8	88	DIM40001-4000-xS28	DIM40001-4000-xS58	DIM40001-4000-xS28J
DIM40001-4500-xS48		48	93.7	89	DIM40001-4500-xS48	DIM40001-3500-xS72	DIM40001-4500-xS48J
DIM40001-5000-xS110		110	45.4	90	DIM40001-5000-xS110	DIM40001-3000-xD18	DIM40001-5000-xS110J
DIM40001-5500-xS220		220	25	92	DIM40001-5500-xS220	DIM40001-2500-xD28	DIM40001-5500-xS220J
DIM40001-6000-xS350		350	17.1	92	DIM40001-6000-xS350	DIM40001-2000-xD48	DIM40001-6000-xS350J
DIM40001-5500-xD24		±24	115/115	85	DIM40001-5500-xD24	DIM40001-2500-xD90	DIM40001-5500-xD24J
DIM40001-5000-xD28		±28	89/89	85	DIM40001-5000-xD36	DIM40001-3000-xD110	DIM40001-5000-xD36J
DIM40001-4500-xD48		±48	47/47	89	DIM40001-4500-xD72	DIM40001-3500-xD220	DIM40001-4500-xD72J
DIM40001-4000-xE1224		12/24	167/83	84	DIM40001-4000-xE122436	DIM40001-4000-xE051224	DIM40001-4000-xE1224J
DIM40001-3500-xE1228		12/28	146/62	86	DIM40001-3500-xE123648	DIM40001-4500-xE092436	DIM40001-3500-xE1236J
DIM40001-3000-xE2428		24/28	62/54	89	DIM40001-3000-xE242472	DIM40001-5000-xE152436	DIM40001-3000-xE2424J
DIM40001-2500-xS24		24	104	88	DIM40001-2500-xS24	DIM40001-5500-xS28	DIM40001-2500-xS24J
DIM40001-2000-xS28		28	71.4	89	DIM40001-2000-xS32	DIM40001-6000-xS36	DIM40001-2000-xS32J
DIM40001-2500-xS48		48	52	89	DIM40001-2500-xS48	DIM40001-5500-xS72	DIM40001-2500-xS48J
DIM40001-3000-xS110		110	27.2	90	DIM40001-3000-xS110	DIM40001-5000-xS115	DIM40001-3000-xS110J
DIM40001-3500-xS220		220	15.9	92	DIM40001-3500-xS22	DIM40001-4500-xS350	DIM40001-3500-xS220J
DIM40001-4000-xS28		28	142.8	88	DIM40001-4000-xS3	DIM40001-4000-xS52	DIM40001-4000-xS36J
DIM40001-4500-xS48		48	93.7	90	DIM40001-4500-xS48	DIM40001-3500-xS90	DIM40001-4500-xS48J
DIM40001-5000-xS24		24	208	90	DIM40001-5000-xS72	DIM40001-3000-xS110	DIM40001-5000-xS72J
DIM40001-5500-xS220		220	25	91	DIM40001-5500-xS220	DIM40001-2500-xS180	DIM40001-5500-xS220J
DIM40001-6000-xS48		48	125	89	DIM40001-6000-xS48	DIM40001-2000-xS42	DIM40001-6000-xS48J
DIM40001-5500-xS110		110	50	90	DIM40001-5500-xS110	DIM40001-2500-xS72	DIM40001-5500-xS110J
DIM40001-5000-xS220		220	22.7	91	DIM40001-5000-xS220	DIM40001-3000-xS280	DIM40001-5000-xS220J
DIM40001-4500-xE2424		24/24	94/94	85	DIM40001-4500-xE1224	DIM40001-3500-xE1524	DIM40001-4500-xE1224J
DIM40001-4000-xE2428		24/28	83/72	88	DIM40001-4000-xE1832	DIM40001-4000-xE2424	DIM40001-4000-xE1832J
DIM40001-4000-xE1224		12/24	167/83	90	DIM40001-3500-xE2448	DIM40001-4500-xE3648	DIM40001-3500-xE2448J

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Recommend Circuit

■Adding input capacitance CIN helps to improve EMC, electrolytic capacitors with 47 uf-100 uf CIN are recommended

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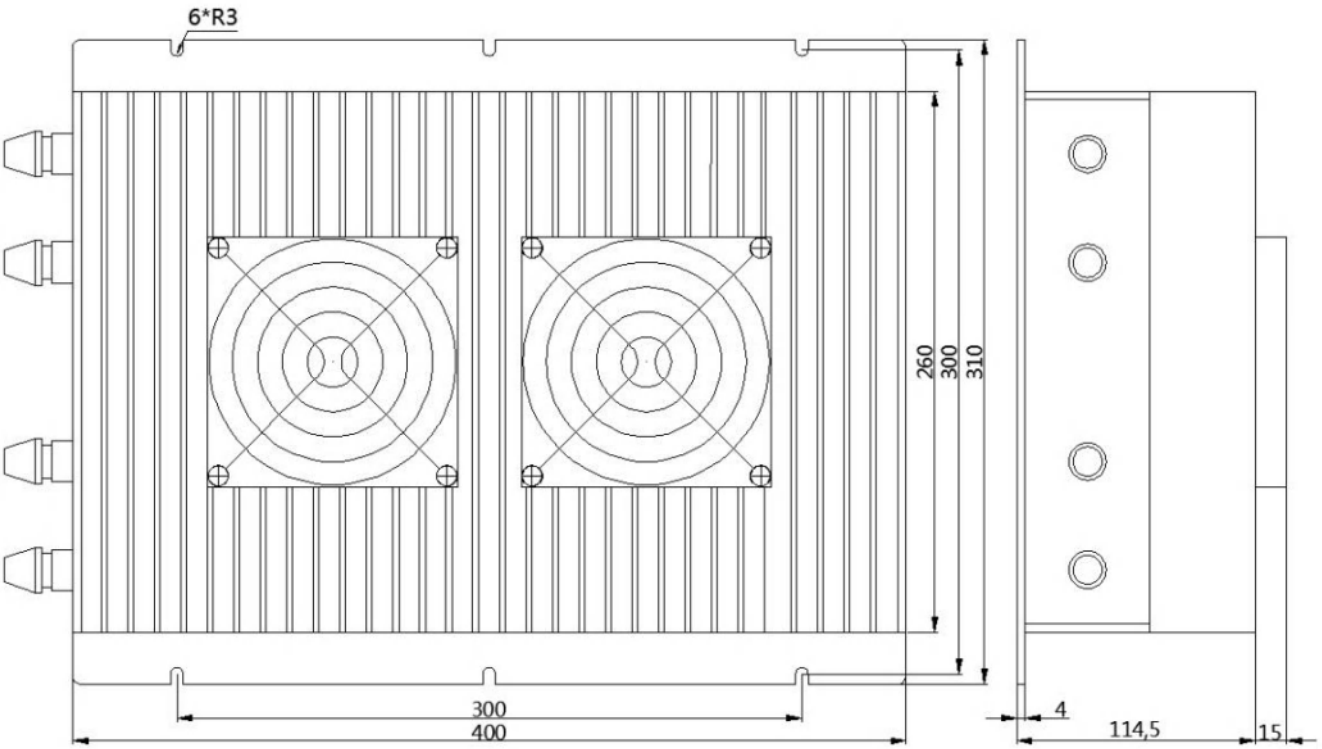
Mechanical Dimensions Figure



- Complies with RoHS standards, UL 1950, and IEC 950 safety regulations
- Metal-shielded enclosure with input π-type filtering
- Advanced circuit topology and high conversion efficiency
- High precision, high reliability, and long lifespan design
- Bottom plate heat dissipation, low standby power consumption
- High isolation voltage, short-circuit/overload protection, and auto-recovery from internal overtemperature
- Widely used in military, telecommunications, industrial control, transportation, power systems, new energy, and scientific research applications

CeneralCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Isolation Voltage	Input/Output (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Intput/Enclosure (1 min), Leakage Current <10mA		1500		VDC
Isolation Voltage	Output/Enclosure	500			VDC
Isolation Resistance	Input/Output	200			MQ
Surge	10~55Hz	5			G
MTBF	MIL		70000		hrs
Overcurrent Protection	Full Voltage Input Range	Auto-Recovery			
Cooling way	Free Air Convection				
Enclosure Material	Metallic Material				

InputCharacteristic				
	Rated Value	**Voltage Range**	**Rated Value**	**Voltage Range**
intput volts(4:1)	18VDC	9-36VDC	36VDC	18-72VDC
intput volts(2:1)	12VDC	9-18VDC	200VDC	100-300VDC
	24VDC	18-36VDC	300VDC	200-400VDC
	48VDC	36-72VDC	600VDC	400-800VDC
	110VDC	66-160VDC	800VDC	600-1000VDC
For other input voltages, please consult our sales service			Reverse Polarity Protection; External Fuse Compatible (Application-Dependent)	

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Voltage Accuracy	o=0.1...1.0 x Ionom Vi=Vi rated			±1	%
Line Regulation	Vimin≤VisVimax			±2	%
Load Regulation	o=0.1.....1.0 x Ionom ViminsVisVimax			±1	%
Auxiliary Voltage Accuracy	Main/Auxiliary Loads Simultaneously ≥25%			±1	%
Ripple & Noise	20 MHz Bandwidth			±1	%
Current Limit Threshold	ViminsVisVimax	120			%
Transient Response	25% Load Step			400	μs
Working rate	ViminsVisVimax	30	200	300	KHz

OutputCharacteristic					
Test Item	**Test Condition**	Min	**Rated**	**Max**	**Unit**
Operating Case Temperature	Industrial Grade/Military Grade	-25/-40		+70/+85	℃
Max. Case Temperature	Industrial Grade/Military Grade			+80/+90	℃
Storage Temperature	Industrial Grade/Military Grade	-40/-55		+100/+105	℃
Relative Humidity	Non-condensing	5		90	RH(%)
Temperature Coefficient		±0.02			%/℃

SelectionCuide							
Model Number	Input	Output		Efficiency	Typical models		
	Rated Value & Range(VDC)	Voltage(VDC)	Current (A)	Typ(%)	Power-Based Naming	Output Voltage-Based Naming	Grade-Based Naming
DIM50001-4000-xS12	x=18(9-36) =24(18-36) =36(18-72) =48(36-72) =110 (66-160 =200(100-300) =300(200-400) =600(400-800) =800(600-1000)	12	333	84	DIM50001-4000-xS12	DIM50001-8000-xS25	DIM50001-4000-xS12J
DM50001-5000-xS13.8		13.8	362	85	DIM50001-4500-xS13.8	DIM50001-7500-xS27	DIM50001-4500-xS13.8J
DIM50001-6000-xS15		15	400	87	DIM50001-5000-xS15	DIM50001-7000-xS32	DIM50001-5000-xS15J
DIM50001-7000-xS24		24	292	87	DIM50001-5500-xS24	DIM50001-6500-xS36	DIM50001-5500-xS24J
DIM50001-8000-xS28		28	286	88	DIM50001-6000-xS28	DIM50001-6000-xS72	DIM50001-6000-xS28.J
DIM50001-7500-xS48		48	156	89	DIM50001-6500-xS48	DIM50001-5500-xS90	DIM50001-6500-xS48J
DIM50001-6500-xS110		110	59	90	DIM50001-7000-xS110	DIM50001-5000-xS250	DIM50001-7000-xS110J
DIM50001-5500-xS220		220	25	91	DIM50001-7500-xS220	DIM50001-4500-xS380	DIM50001-7500-xS220J
DIM50001-4500-xS350		350	12.8	91	DIM50001-8000-xS350	DIM50001-4000-xS500	DIM50001-8000-xS350J
DIM50001-4000-xD24		±24	83/83	85	DIM50001-7500-xD24	DIM50001-4500-xD12	DIM50001-7500-xD24J
DIM50001-4500-xD28		±28	80/80	85	DIM50001-7000-xD36	DIM50001-5000-xD48	DIM50001-7000-xD36J
DIM50001-5000-xD72		±72	35/35	89	DIM50001-6500-xD72	DIM50001-5500-xD90	DIM50001-6500-xD72J
DIM50001-5500-xE2424		24/24	115/115	85	DIM50001-6000-xE1224	DIM50001-6000-xE1215	DIM50001-6000-xE1224J
DIM50001-6000-xE2428		24/28	125/107	86	DIM50001-5500-xE2448	DIM50001-6500-xE1530	DIM50001-5500-xE2448J
DIM50001-6500-xS36		35	180	84	DIM50001-5000-xS20	DIM50001-7000-xS15	DIM50001-5000-xS12J
DIM50001-7000-xS24		24	292	86	DIM50001-4500-xS24	DIM50001-7500-xS29.2	DIM50001-4500-xS24J
DIM50001-7500-xS28		28	268	87	DIM50001-4000-xS32	DIM50001-8000-xS36	DIM50001-4000-xS32
DIM50001-8000-xS48		48	167	89	DIM50001-4500-xS48	DIM50001-7500-xS72	DIM50001-4500-xS48J
DIM50001-7500-xS110		110	68	90	DIM50001-5000-xS110	DIM50001-7000-xS90	DIM50001-5000-xS110J
DIM50001-7000-xS220		220	34	92	DIM50001-5500-xS220	DIM50001-6500-xS325	DIM50001-5500-xS220J
DIM50001-6500-xS28		28	232	88	DIM50001-6000-xS36	DIM50001-6000-xS42	DIM50001-6000-xS36
DIM50001-6000-xS48		48	125	90	DIM50001-6500-xS48	DIM50001-5500-xS50	DIM50001-6500-xS48J
DIM50001-5500-xS72		72	76	90	DIM50001-7000-xS72	DIM50001-5000-xS92	DIM50001-7000-xS72
DIM50001-5000-xS220		220	22.7	91	DIM50001-7500-xS220	DIM50001-4500-xS110	DIM50001-7500-xS220J
DIM50001-4500-xD28		±28	80/80	88	DIM50001-8000-xD48	DIM50001-4000-xD72	DIM50001-8000-xD48J
DIM50001-4000-xS48		48	83	89	DIM50001-7500-xS48	DIM50001-4500-xS52	DIM50001-7500-xS48J
DIM50001-4500-xS90		90	50	90	DIM50001-7000-xS90	DIM50001-5000-xS72	DIM50001-7000-xS90J
DIM50001-5000-xS110		110	45	90	DIM50001-6500-xS110	DIM50001-5500-xS180	DIM50001-6500-xS110J
DIM50001-5500-xS220		220	25	91	DIM50001-6000-xS220	DIM50001-6000-xS250	DIM50001-6000-xS220J
DIM50001-6000-xS350		350	17	91	DIM50001-5500-xS325	DIM50001-6500-xS380	DIM50001-5500-xS325J

■All specifications are tested at an ambient temperature of 25°C, nominal input voltage and rated output current, unless otherwise noted.

■Multiple outputs: output voltage and elm out current can be arbitrarily selected.

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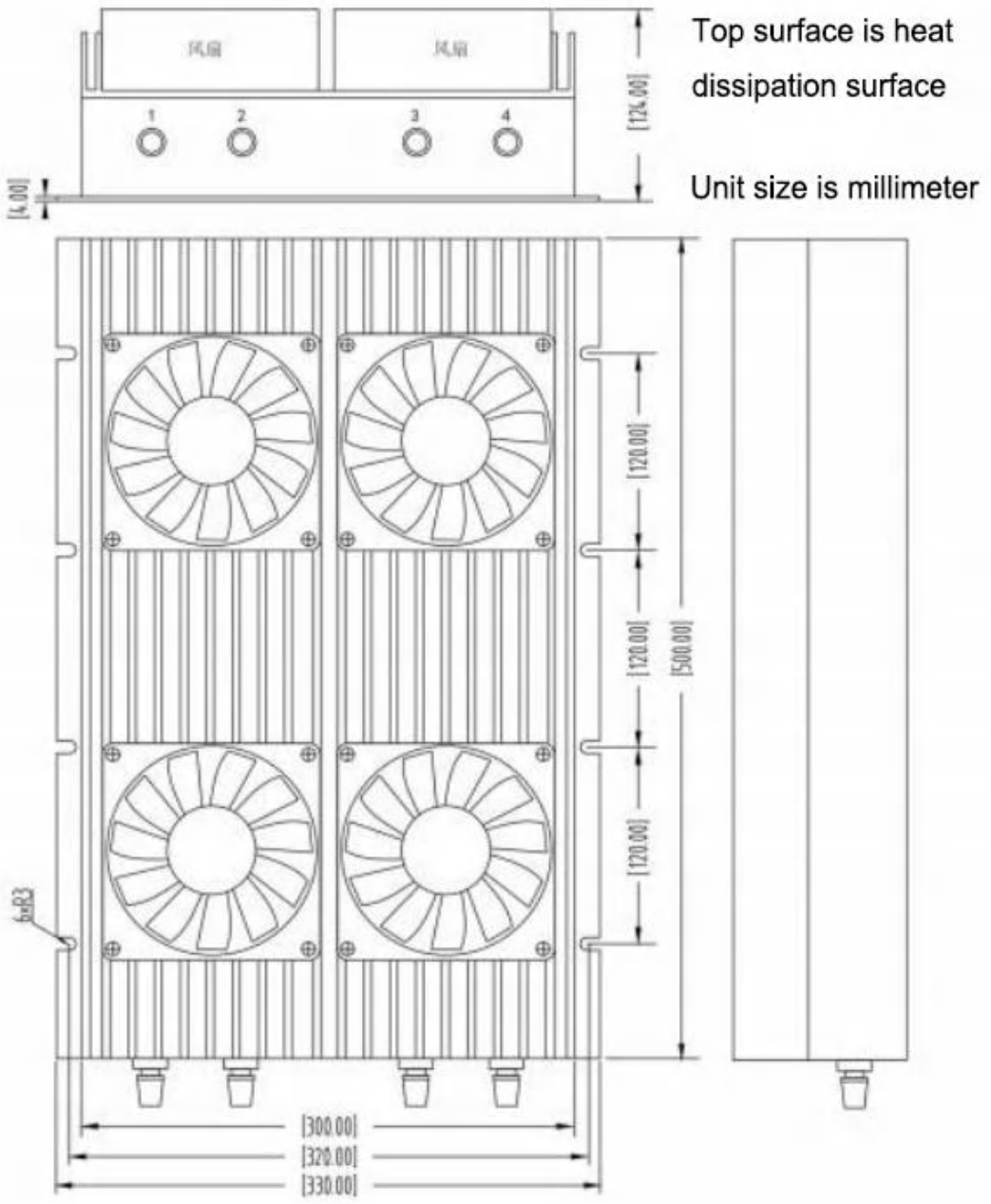

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