Frequency stabilized power supply

LP	3	3	3
LA Series Frequency stabilized power supply	Input phase	Output phase	Capacity: 1000 KVA

Product Overview

Our company's LW series regulated voltage and frequency power supplies are specifically designed and developed to address comprehensive power quality issues such as unstable grid voltage and frequency, severe voltage distortion, flicker, and voltage dips, ensuring reliable power supply for precision equipment with demanding power requirements.

Product performance advantages

The power supply utilizes advanced high-frequency pulse width modulation (SPWM) IGBT inverter technology and features an AC-DC-AC circuit design. It is equipped with a dedicated power frequency isolation transformer, ensuring safety and reliability while effectively eliminating grid interference. The output waveform is pure, and it offers highly accurate voltage and frequency stabilization, along with the advantages of light weight and compact size.

Technical Features

* Equipped with over-voltage, over-current, short-circuit, and over-temperature warning devices.

* 16-bit microprocessor control, intelligent, flexible, and easy to operate.

* Low distortion and interference, complete input/output isolation, safe and reliable.

* Unique instantaneous value control, low waveform distortion, and high control accuracy.

* Extremely fast dynamic response; steady-state response time when load changes from 0-100%.

* Provides standard grid voltages and frequencies for various countries worldwide, simulating testing of various electrical products.

* No radiation interference, low harmonic content, and specially treated to prevent interference.

* Efficiency of over 85%, suitable for a wide range of loads, including inductive, capacitive, and resistive loads.

* Original imported German Siemens IGBT high-frequency inverter and core components, stable and reliable.

* Output voltage: Low range: 0-150V, High range: 0-300V continuously adjustable.

* Multi-functional, meter and power source combined: Output includes 0.5 级 voltage, current, frequency, power/power factor meters.

Single-Phase Voltage and Frequency Stabilized Power Supply Technical Parameters

Machine model		LW11-1K	LW11-10K	LW11-50K	LW11-100K	LW-11-150K	LW-11-200K
Rated capacity		1KVA	10KVA	50KVA	100KVA	150KVA	200KVA
Control method		IGBT/PWM pulse width modulation method					
Input	Ph.Num	1-phase					
	Rated voltage	200V					
	Voltage input range	130-285V					
	Frequency	30Hz-70Hz					
	Ph.Num	1-phase					
	Waveform	Pure sine wave					
	Voltage	220V					
	Frequency stability	≤1%					

Output	Frequency	50Hz or 60Hz
	Frequency stability	≤0.01%
	(THD)	THD≤3%
	Efficiency	≤90% (100% load)
	Response time	≤2ms
	Adaptive load	No load type restrictions, suitable for various inductive, resistive, capacitive, and mixed loads
Operating characteristics		Designed for continuous long-term operation, features an isolated transformer output for high reliability.
Display		7-inch LCD touchscreen displays voltage, current, frequency, power, and power factor.
Cooling method		Fan cooling.
Output protection		Equipped with comprehensive protection functions and alarm devices against overvoltage, overcurrent, short circuit, and overheating.
environment	Insulation resistance	DC ≥500V10 MΩ
	Dielectric strength	AC 1800V 5mA/1 minute
	Operating temperature	-15°C-45°C
	Relative humidity	0-90% (non-condensing)
	Altitude	≤1500m
Remarks		The input voltage and frequency range are extremely wide, and the output stability is excellent, making it suitable for areas with highly unstable power grids.

Three-phase voltage and frequency stabilized power supply technical parameters

Machine model		LW33						
Rated capacity		10KVA	15KVA	20KVA	30KVA	45KVA	60KVA	100KVA
Control method		IGBT/PWM pulse width modulation method						
Input	Ph.Num	3-phase						
	Rated voltage	380V						
	Voltage input range	265V-495V						
	Frequency	30Hz-70Hz						
	Ph.Num	3-phase						
	Waveform	Pure sine wave						
	Voltage	380V						
	Frequency stability	≤1%						

Output	Frequency	50Hz or 60Hz
	Frequency stability	≤0.01%
	(THD)	THD≤3%
	Efficiency	≤90% (100% load)
	Response time	≤2ms
	Adaptive load	No load type restrictions, suitable for various inductive, resistive, capacitive, and mixed loads
Operating characteristics		Designed for continuous long-term operation, features an isolated transformer output for high reliability.
Display		7-inch LCD touchscreen displays voltage, current, frequency, power, and power factor.
Cooling method		Fan cooling.
Output protection		Equipped with comprehensive protection functions and alarm devices against overvoltage, overcurrent, short circuit, and overheating.
environment	Insulation resistance	DC ≥500V10 MΩ
	Dielectric strength	AC 1800V 5mA/1 minute
	Operating temperature	-15°C-45°C
	Relative humidity	0-90% (non-condensing)
	Altitude	≤1500m
Remarks		The input voltage and frequency range are extremely wide, and the output stability is excellent, making it suitable for areas with highly unstable power grids.

Three-phase voltage and frequency stabilized power supply technical parameters

Machine model		LW33						
Rated capacity		150KVA	200KVA	250KVA	300KVA	450KVA	600KVA	800KVA
Control method		IGBT/PWM pulse width modulation method						
Input	Ph.Num	3-phase						
	Rated voltage	380V						
	Voltage input range	265V-495V						
	Frequency	30Hz-70Hz						
	Ph.Num	3-phase						
	Waveform	Pure sine wave						
	Voltage	380V						
	Frequency stability	≤1%						
	Frequency	50Hz or 60Hz						

Output	Frequency stability	≤0.01%
	(THD)	THD≤3%
	Efficiency	≤90% (100% load)
	Response time	≤2ms
	Adaptive load	No load type restrictions, suitable for various inductive, resistive, capacitive, and mixed loads
Operating characteristics		Designed for continuous long-term operation, features an isolated transformer output for high reliability.
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Remarks		The input voltage and frequency range are extremely wide, and the output stability is excellent, making it suitable for areas with highly unstable power grids.

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