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Ideal Power Solution

LVLV High Voltage Linear DC Power Supply

- Power range: 0 ~ 400KW
- Voltage range: 0V ~ 800V
- Current range: 0A ~ 500A
- Precise voltage and current setting and measurement capabilities
- OVP, OCP, OTP and short circuit protections etc.
- Nearly 500 types of output specifications are available.

Overview

LVLV series is linear DC power supply uses power frequency transformer AC/DC conversion technology and matured filtering circuit to ensure pure and stable DC output

As it uses power frequency transformer, it does not have high frequency radiation interference like switching mode power supply has, so it is suitable for some special conditions that sensitive to EMC. And by its matured and perfect filtering circuit, it has super low ripple and very good output precision; also it has complete protection functions

As features above, this series is mostly used for capacitor, relay and resistor burn-in test and other kinds of test that needs high precision & low ripple DC output.



Features

- Over 500 models, output voltage: 0 ~ 800V, output current: 0 ~ 500A, output power: 0KW-400kW
- Constant voltage mode and constant current mode, automatic switchable, output voltage / current continuously adjustable from 0 to rated value.
- Over voltage protection: Over voltage value continuously adjustable from 0 to 110% rated value, auto-shut down when output voltage exceeds the over voltage set point
- Short protection: Withstand short-circuit under start-up or any working modes, sound & light alarm when output has short.
- Over load protection: Auto-tripping when power supply or load has fault and output current exceeds 1.5 times of rated value.
- Current-limit protection: User set current-limit value; output current will be limited at current-limit value when load has fault.
- Output display: Voltage & current both LED digital display.

Application

- Electrolysis capacitor burn-in, tantalum capacitor energizing, charging.
- Resistor, relay, motor, transistor and other electronic components burn-in and routine test.
- Stereo equipment test, vehicle electronics test
- Different kinds of current protector test.
- Lab, electronic device and automatic test equipment
- Electronic test device, production line equipment, communication equipment.
- Electrolysis, electroplating, electrochemical equipment.
- Other conditions need high precision DC output.

Optional functions

- Short alarm: sound & light alarm when output voltage lower than 1% of rated value and current higher 110% of rated value.
- Automatic off-load and discharging: when power supply shutdown, power supply will automatically cut off load and discharge electric in load for safety.
- Output display: LCD touch screen display.
- Pulsing working: could add time controller to be pulsing power supply.
- Communication port: RS232/RS485 for connection with computer to be remote controlled & monitored by computers.
- Analog signal: 0 ~ 5V (10V) or 4 ~ 20mA analog signal for output voltage & current control.

Specifications

Input	Voltage	Single-phase 220Vac±10% (≤7KW) Three-phase 380Vac±10% (>7KW)	
	Frequency	50Hz±10%	
Output	Output modes	DC C.C. / C.V.	
	Rated power	*** kW	
	Output voltage adjusting	0V ~ ***V	
	Output current adjusting	0A ~ ***A	
	Accuracy (C.V.)	Line regulation	≤0.1% Of the rated value ± 1 digit (output voltage change ratio under input ±10% change)
		Stability	during 8 hrs≤0.3% of the rated value (output voltage change ratio due to 8 hours continuously working)
		Temp. coeff.offset	≤0.04% of the rated value/°C(output voltage change ratio due to environment temperature changes)
		Load regulation	≤0.3% of the rated value ± 1 digit (output voltage change ratio due to output current change from 0 to rated value)
	Accuracy (C.C.)	Line regulation	≤0.1% Of the rated value ± 1 digit (output current change ratio under input ±10% change)
		Stability	during 8 hrs≤0.3% of the rated value(output current change ratio due to 8 hours continuously working)
		Temp. coeff.offset	≤0.04% of the rated value/°C(output current change ratio due to environment temperature changes)
		Load regulation	≤0.3% of the rated value ± 1 digit (output current change ratio due to output voltage change from 0 to rated value)
	Ripple +noise (RMS)		CV: ≤0.01% of the rated value+10mV (80%~100% rated output) (single-phase input) ≤0.1% of the rated value+10mV (80%~100% rated output) (three-phase input) CC: ≤0.2% of the rated value+10mA (80%~100% rated output)
	Efficiency		≥75% (measured @ 80%-100% resistive loading)
Working ability		Withstand long-term continual working.	
Setting & Display	Control mode	10-turn Potentiometer (with-lock)	
	Display mode	4 ¹ / ₂ Digital LED	
	Display error	Voltage	≤±1%±1digit (range:5%~50% of the rated value)
		Current	≤±0.5%±1digit (range:50%~100% of the rated value)
Display resolution	Voltage	Four-digit display with a minimum resolution of 0.01V / 0.1V / 1V (As per rated output values)	

		Current	Four-digit display with a minimum resolution of 1mA / 0.01A / 0.1A (As per rated output values)
Load characteristic			On demand
Protection & Monitoring functions	Input protection		Input lack voltage and lack phase protection. (available for three-phase input)
	Output over voltage protection (OVP)		Power supply automatically cuts off output and alarms when output has over voltage.
	Output over current protection (OCP)		Power supply automatically cuts off output and alarms when the output has over current.
	Over temperature protection (OTP)		Power supply automatically cuts off output and alarms when the internal temperature of the power supply exceeds its threshold value.
	Output short-circuit protection		Withstand short-circuit and alarm.
Noise			≤65 ~ 75dB
Protection degree			IP20
Cooling method			Forced air cooling
Working conditions	Ambient temperature		-10°C ~ 40°C
	Humidity		10% ~ 80%(non-condensing)
	Height		≤1000m
Accessories			Fuse * 1 set Operation manual * 1pc
<ul style="list-style-type: none"> ● Input Voltage: Power source voltage can be changed to others on request. ● Custom-made specifications are on request. 			