

# CP600-30V/30A/CP900-30V/30A

## HIGH POWER PROGRAM-CONTROLLED DC REGULATED VOLTAGE POWER SUPPLY

### Overview

CP series power supply is a high-precision, high-reliability, constant-voltage, constant-current, constant-power switching linear regulated power supply. The product adopts innovative double voltage-regulated structure of switch regulated voltage + linear regulated voltage, and also features high efficiency and high power of switching power supply, and the low ripple and high reliability of the linear power supply.

### Application

- Automated testing
- Automotive electronic testing
- Photovoltaic new energy field
- Education, scientific research, laboratory
- Electromechanical field
- LED lighting field
- Other tests, product aging use



### Features

- The product is suitable for 100-240V AC universal AC input, universal use for the global power grid.
- Pure digital MCU control, long-term use to ensure product accuracy, long service life, and low temperature drift.
- High-precision setting and read-back display, built-in 16-bit D/A 20-bit A/D converter
- The product has high efficiency and built-in power factor correction circuit.
- Pure hardware OVP, OCP, OHP, OPP protection, OVP/OCP protection values can be set separately.
- Front switch regulated voltage + post linear regulated voltage, double regulated voltage structure, high efficiency, and low ripple.
- With local or remote voltage acquisition, and automatic compensation function. Long-distance measurement can also ensure accuracy.
- Provide 3 groups of quick parameter storage function to quickly call the settings.
- Provide coarse adjustment and fine adjustment functions. Voltage setting accuracy is up to 1mV, current 1mA.
- Intelligent temperature-controlled fan, automatically controlling the speed of heat dissipation.
- Standard USB, RS232 communication interface, which can be connected and controlled with the PC.

## CP series technical specification:

Model		CP600-30V/30A	CP900-30V/30A
AC input	Input voltage	220-240V AC	
	Frequency	47-63Hz	
	(PFC)	>0.98	
Output	Output power	0-600W (CP)	0-900W
	Output voltage	0-31V	0-31V
	Output current	0-31A	0-31A
Working method		CV/CC/CP	CV/CC
Voltage	Setting resolution	1mV	1mV
	Maximum preset voltage(105% of rating)	31V	31V
	Setting accuracy	0.05%set + 20mV	
	Line regulation	0.01% +5mV	
	Load regulation	0.1% + 5mV	
	Voltage display resolution	10mV	
	Voltage display accuracy	±(0.05% of reading + 2digits) at 23±5°C	
	Ripple noise	100mVp-p/10mVrms	
	Rise time (Rated Load)	150mS	
	Fall time (No Load)	150mS	
	Temperature coefficient	100ppm/°C(TYP Value)	
Current	Setting resolution	1mA	
	Maximum preset current (105% of rating)	31A	31A
	Setting accuracy	0.1% set +0.1% rating	
	Line regulation	0.1%+10mA	
	Load regulation	0.2%+10mA	
	Ripple noise	50mA	
	Temperature coefficient	200ppm/°C	
	Current display resolution	1mA(≤10A) / 10mA(≥10A)	
Current display accuracy	±(0.2% of reading + 30 digits) at 23±5°C		
Protection functions OVP range:0.3V-Rated Voltage+1.5V OCP range:0.3V-Rated Voltage+1.5A		OVP、OCP、OHP、OPP、SCP(short circuit protection)	
Efficiency(full load)		≥85%	
Communication method		USB、RS232	
Product size		W190xH125xD330mm	
Standard packing			
Inner box: 42.8x29.5x22.2 (cm)		N.W: 4.1KG	G.W: 5.1KG