

DC Power Supply

ESP series



Specially for industrial and laboratory equipment

ESP DC power supply is featured in conventional structure, reliable and stable. It's equipped with fixed voltage and limited current device. LED indicator on Panel gives digital voltage and current, displaying clearly and simple in operation.

Feature:

- **Adopt Silicone transistor or SCR type**
Transistor: high stable rate, fast response, low ripple and ultra low noise
SCR type : highly stable control circuit allowing long time continuous full load output
- **All digital display of output voltage and current**
High precision and high resolution 3 and 1/2 LED display of voltage and current
- **Fixed voltage and limited current structure**
Allowing voltage has more accurate output and steadier current
- **Overload, short circuit, reverse phase and abnormal – 4 protections**
Used fast no fuse breaker with functions of abnormal and overload tripping, and internal reverse phase protection circuit and short circuit cutting circuit
- **Output resolution**
With high precision 10 turns adjusting knob allowing precisely adjusting to needed voltage

✧ Application:



Service Life Test
Equipment



Electroplating
Equipment



QC Power Supply



Laboratory



Product R&D



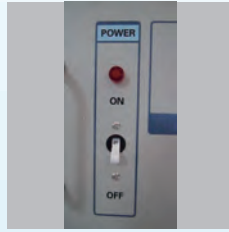
Testing Equipment

Precision Main Control PCB



Providing precision and stable main control PCB

Fast No Fuse Breaker



Fast no fuse breaker has the function of overload and short circuit tripping

Stable Main Control Components



In transistor and silicone control rectified generating stable DC output

Standard Cabinet



Cabinet in standard 4U size and can be combined with equipment rack to design

Precision Adjusting Knob



Precision 10 turns voltage adjusting knob for accurate output voltage adjustment

Model & Specification:

Model No. (ESP-)	Amplifier Type	SCR Type
Input Voltage	1 ϕ 2W AC110V or AC220V 50Hz or 60Hz	
Output Voltage	DC 0~2000V (10 turns potentiometer setting)	
Output Current	DC 0~500 Amps	
Output Display	3 and 1/2 LED displayed voltmeter and ammeter	
Line Regulation	$\leq 0.1\%$	
Load Regulation	$\leq 0.1\%$	
Ripple %	$\leq 0.1\%$	$\leq 0.5\%$
Voltage Transient Recovery Time	50~100 μ s	≤ 0.1 s
Current Transient Recovery Time	$\leq 50\mu$ s	≤ 0.1 ms
Max. Output Value	105% of nominal value	
Protection	Over voltage, over current, output direction changed abnormally and short circuit	
Cooling System	Cooling fan	
Insulating Resistance	P-E: 20M Ω 500VDC, S-E: 20 M Ω 500VDC	
Hi-Pot Test	P-E: 1500VAC for 1 min., P-S: 1500VAC for 1 min.	
Environment	Temperature: 0 $^{\circ}$ C ~45 $^{\circ}$ C Humidity: 0%~95% (non-condensing)	