

# Switch Mode Power Supplies

## S-2500/3000W Series

### Application & Features

Low price, high reliability  
 105°C output capacitor  
 AC input power supply is applicable all over the world  
 High efficiency and low operation temperature  
 Soft start current, effectively reduce AC input impact  
 Short circuit protection. Overload protection  
 Small size and light weight  
 100% full load burn-in test  
 Built-in EMI filter, minimal ripple & noise



Specification / Model	S-2500-12	S-2500-24	S-2500-36	S-2500-(0-48)	S-3000-24	S-3000-48
DC output voltage	12V	24V	36V	1-48V	24V	48V
Output voltage tolerance	±1%	±1%	±1%	±1%	±1%	±1%
Rated output current	208A	104A	69A	52A恒流	125A	62.5A
Output current range	0~208A	0-104A	0-69A	0-52A	0-125A	0-62.5A
Ripple & noise (Note 3)	150mVp-p	150mVp-p	200mVp-p	200mVp-p	240mVp-p	480mVp-p
Stability of incoming line (Note 4)	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load stability (Note:5)	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
DC output power	2500W	2500W	2500W	2500W	2000W	48V-2000W
Efficiency	84%	84%	85%	85.5%	86.5%	87%
Adjustable range of DC voltage	±10%	±10%	±10%	±10%	±10%	0~48V
AC Input voltage range	190-240VAC/47-63Hz					
Input current	7A/230V					
Surge current	50A/230V					
Leak current	<3.5mA/240VAC					
Over-load protection	105%-150%: cut-off with automatic reset/recovery (when overload removed)					
Over-voltage protection	110%-135%VO					
Over-temperature protection	≥270℃ over-temperature cut output (0-50V)					
Temperature coefficient	±0.03%/C (0-50℃)					
Set up? rise, hold-time	1.5s, 50ms, 20ms					
Resistance to shock	10-500Hz.2G 10min/1cycle for 60 minutes on each axis					
Resistance to pressure	Input/Output: 1.5kVac input and housing: 1.5kVac output and housing: 0.5kVac					
Isolation resistance	Input/output: input to chassis, output to chassis :500VDC/ 100MΩ					

Operating temperature, humidity	-10℃~+60℃ (Refer to the output characteristics diagram) 20%~90%RH			
Storage temperature and humidity	-20℃~+85℃, 10%~95%RH			
Weight	4.2kgs [are they really all the same?]			
Safety standards	Meets UL1950 requirement (not yet approved mark)			

- Notes:** The test conditions for the above parameters are as follows:
1. 230Vac input, rated load, 25 ° C 70%rh, humidity.
  2. **Tolerance:** including the set tolerance, line stability, load stability (Note 5).
  3. **Ripple test:** 20MHz with "A12" twisted pair wire, interrupt with 0.1uF & 47uF capacitor short circuit.
  4. **Input voltage stability test:** minimum input voltage to maximum input voltage at full load.
  5. **Load stability test:** Load from 0% to 100%

