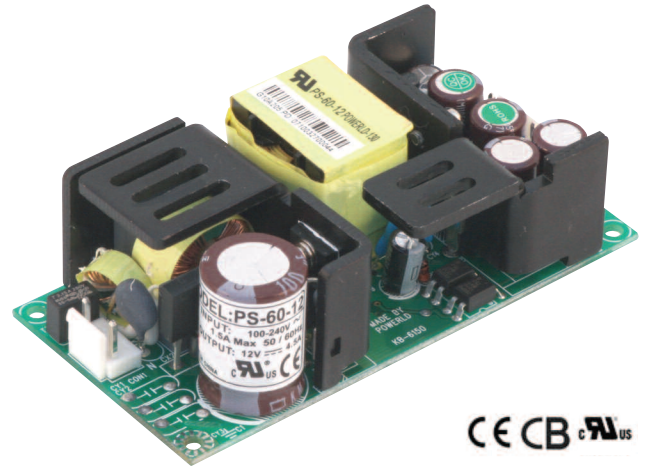


Switchbox PS-60 Series

60W SINGLE OUTPUT POWER SUPPLY

Features

- Universal AC input/full range
- High efficiency low power consumption
- Output protections: OLP/OVP/SCP
- Wide operating ambient temperature (-20°C-70°C)
- All using 105°C long life electrolytic capacitors
- 100% full load burn-in test



Specifications

INPUT

Voltage range	90-264VAC.
Frequency	47-63Hz.
Efficiency	See table.
Input current	<1.5A.
Inrush current	30A@115VAC, 60A@230VAC, cold start.
Leakage current	<0.25mA.

OUTPUT

Power	60W max.
Voltage range	See table.
Output current	See table.
Ripple and noise	See table (note 2).
Voltage adj. range	-5 to +10% of rated output voltage.
Voltage accuracy	±3.0%.
Line regulation	±0.5%.
Load regulation	±2.0%.
Set-up time	<1.0S (230VAC input, full load).
Hold up time	>20mS (230VAC input, full load).
Temperature coefficient	0.03%/°C.
Overshoot/undershoot	<5.0%.
Overload protection	105-180% of rated output current, hiccup mode, auto recovery.
Overvoltage protection	110-150% of rated output voltage, constant voltage.
Short circuit protection	Long-term mode, auto recovery.

ENVIRONMENTAL

Operating ambient temp.	-20°C to +70°C. 20-90%RH, no condensing.
Storage temperature	-40°C to +85°C. 10-95%RH, no condensing.
Cooling	Free air convection.

GENERAL

Withstand voltage	Primary-secondary: 3.0kVAC, ≤10mA.
Isolation resistance	≥100M ohms.
MTBF	More than 100,000 hrs (25°C, full load).
Dimension	101.6 x 50.8 x 28mm.
Packing	60pcs/ctn, G.W. 12 kg.

STANDARDS

Safety standards	GB4943-2001; EN60950-1: 2006.
EMC (note 3)	
EMI conduction&radiation	Compliance to EN55022 (CISPR22) Class B.
Harmonic current	Compliance to EN61000-3-2, 17625.1-2003.
EMS immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, light industry level, criteria A

Note

1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature
2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 47 uF parallel capacitor.
3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives.

MODEL NUMBER	OUTPUT VOLTAGE	RATED CURRENT	RIPPLE& NOISE 0-70°C	RIPPLE& NOISE -25-0°C	EFFICIENCY
PS-60-3.3	3.3 V	8 A	80mV	200mV	75%
PS-60-5	5 V	8 A	80mV	200mV	81%
PS-60-12	12 V	4.5 A	120mV	300mV	84%
PS-60-15	15 V	3.6 A	150mV	360mV	84%
PS-60-24	24 V	2.5 A	240mV	360mV	86%
PS-60-48	48 V	1.25 A	240mV	600mV	87%

Switchbox PS-60 Series

60W SINGLE OUTPUT POWER SUPPLY

