



# SP45P Series

# 42 Watts

Date: 8/29/12

Desk-Top, Switchmode Power Supply  
Dual & Triple Output, RoHS Compliant

Rev: 082912

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### Features:

- Universal Input 100 – 240 VAC
- IEC320-C14 Input Socket
- Dual & Triple Output
- Short Circuit Protection
- Over-Current Protection
- Over-Voltage Protection
- 100% Burn-In
- LED Indication
- RoHS Compliant



### Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	1.35A Max at 115VAC 0.8A Max at 230VAC
Safety Ground Leakage Current	0.75mA Max. @ 240VAC, Full Load

### Output

Output Voltage & Current	<b>See Chart</b>
Ripple & Noise (P-P)	1% Max, Full Load @ 90VAC Input
Over-Voltage Protection	Set at 112 - 132% of Nominal Output Voltage
Over-Current Protection	Set at 110 - 150% of Nominal Output Current
Temperature Coefficient	± 0.04% / °C Max.
Transient Response	Full Load to Half Load @ 100VAC Input: 4mS Max.

### Environmental

Operating Temperature	0°C to 70°C
Derating	Derated from 100% at +40°C to 50% at +70°C
Storage Temperature	-40°C to 85°C
Relative Humidity	0% to 95% Non-Condensing

### Electrical

Efficiency	<b>See Chart</b>
Hold-Up Time	12mS Max.
Line Regulation	±1% Max. at Full Load
Load Regulation	±3% Typical ±15% Max. at 230VAC
Inrush Current	20A @ 115VAC Max. 40A @ 230VAC Max. at 25°C Cold Start
Withstanding Voltage	4242 VDC from Input to Output, 2121 VDC from Input to Ground
Insulation Resistance	50 MΩ Min. from Output to Ground
Mean Time Between Failure (MTBF)	100,000 Hours Min., Full Load at 25°C Ambient

### Safety

EMI Requirements	Meets Conduction Limits of: (A) FCC Part-15 Class B (B) CISPR-22 Class B
Safety Standards	Meets or Exceeds: (A) UL/ c-UL 60950-1 (B) TÜV /GS (C) CB (D) CE (E) PSE (≤15V Output Only) (F) CCC (G) FCC



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Output Voltage and Current Chart

Model Number	Output #1 Voltage & Regulation		Output #2 Voltage & Regulation		Output #3 Voltage & Regulation		Efficiency (Min)	Maximum Output Power
SP45P260R	+3.3V @ 5A	7%	+12V @ 2A	5%			68%	40W
SP45P250R	+5V @ 5A	5%	+12V @ 2A	5%			70%	42W
SP45P253R	+5V @ 5A	5%	+15V @ 1.5A	6%			70%	42W
SP45P254R	+5V @ 5A	5%	+24V @ 1A	5%			70%	42W
SP45P259R	+3.3V @ 5A	7%	+5V @ 2A	5%			65%	26.5 W
SP45P256R	+12V @ 3A	5%			-12V @ 1A	10%	75%	42W
SP45P257R	+15V @ 2A	5%			-15V @ 1A	10%	75%	42W
SP45P262R	+5V @ 5A	5%			-24V @ 1A	10%	70%	42W
SP45P382R	+3.3V @ 5A	7%	+12V @ 2A	5%	-12V @ 0.8A	5%	70%	42W
SP45P377R	+5V @ 5A	5%	+12V @ 2A	5%	-5V @ 0.8A	5%	70%	42W
SP45P370R	+5V @ 5A	5%	+12V @ 2A	5%	-12V @ 0.8A	5%	70%	42W
SP45P374R	+5V @ 5A	5%	+15V @ 2A	6%	-15V @ 0.8A	5%	70%	42W
SP45P376R	+5V @ 5A	5%	+24V @ 1A	5%	-24V @ 0.5A	5%	70%	42W
SP45P379R	+5V @ 5A	5%	+24V @ 1A	5%	-12V @ 0.8A	5%	68%	42W
SP45P380R	+3.3V @ 5A	7%	+12V @ 2A	5%	-5V @ 0.8A	5%	70%	42W

Note: Models with less than 15V Output are PSE Approved

Note: Output Connector to be specified.

Standard Connector: 4 ft. (AWG#18) cable w/ 5-Pin Power Din Cable.

