



# SP36DY – SP60DY Series

Desk-Top, Switch Mode Power Supply  
RoHS Compliant, CEC Efficiency Level IV

Date: 5/6/10

Rev: 030110

Page: 1 of 2



### Features:

- Available in C6 & C8 Input Socket
- Over-Voltage Protection
- Short Circuit Protection
- Over-Current Protection
- 100% Burn-In
- LED Indication
- 100% Hi-Pot Tested
- RoHS Compliant
- CEC Efficiency Level: IV



### Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	1.8A Max
Safety Ground Leakage Current	0.75mA Max. @ 240VAC, Full Load

### Output

Output Voltage & Current	<i>See Chart</i>
Ripple & Noise (P-P)	<i>See Chart</i>
Over-Voltage Protection	Auto Recovery
Over-Current Protection	Protected to Short Circuit Conditions, Auto Start
Temperature Coefficient	± 0.05% / °C Max.

### Environmental

Operating Temperature	0°C to 70°C
Derating	Derated from 100% at +40°C to 50% at +70°C
Storage Temperature	-20°C to 85°C
Relative Humidity	5% to 95% Non-Condensing

### Electrical

Efficiency	Meets CEC Level IV Criteria
No Load Power Consumption	≤0.5 Watts
Hold-Up Time	8.3mS Min.
Line Regulation	±1% Max. at Full Load
Load Regulation	±5% Max. at Full Load
Inrush Current	60A Max.
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 (B) TUV/GS (C) CE (D) CB (E) CCC (F) PSE (C8 Input, >15V Output )

## Output Voltage and Current Chart

Model Number**	Output Voltage	Maximum Output Current	Maximum Output Power	Ripple & Noise
SP36DYXXR	12 - 17 VDC	3.0 A	36W	200 mV
SP36DYXXR	18 - 24 VDC	2.0 A	36W	360 mV
SP50DYXXR	12 - 17 VDC	4.2 A	56W	200 mV
SP60DYXXR	18 - 24 VDC	3.2 A	60W	360 mV

\*\* To Determine Part Number:

- Replace "Y" with Required Input Socket Style Designation (C6 = "6", C8 = "8")
- Replace "XX" with Required Output Voltage (12VDC = "12", 24VDC = "24", etc.)

Example: SP60D~~8~~24 R indicates a 24VDC Unit with a C8 Input Socket.

**Note:**

Output connector to be specified

Standard Connector is a 2.5 x 5.5 x 11mm Female Barrel Plug, Center Positive (+)

The cable length and wire gauge will be dependent on CEC requirements for each current level

