



SP130D1R – SP180D1R Series

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

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Features:

- IEC320-C14 & C6 Inputs
- Over-Voltage Protection
- Short Circuit Protection
- Over-Current Protection
- 100% Burn-In
- 100% Hi-Pot Tested
- RoHS Compliant
- CEC Efficiency Level: V



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63 Hz
Input Current (12 - 18V)	2.50 A Max. at 110 VAC 1.25 A Max. at 220 VAC
(19 - 24V)	3.00 A Max. at 110 VAC 1.50 A Max. at 220 VAC
Safety Ground Leakage Current	0.75mA Max.

Output

Output Voltage & Current	<i>See Chart</i>
Ripple & Noise (P-P)	<i>See Chart</i>
Over-Voltage Protection	150% Max. of Rated Voltage
Over-Current Protection	Protected to Short Circuit Conditions, Auto Start
Temperature Coefficient	± 0.05% / °C Max.

Environmental

Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 85°C
Relative Humidity	5% to 95% Non-Condensing

Electrical

Efficiency	Meets CEC Level V Criteria
No Load Power Consumption	≤0.5 Watts
Hold-Up Time	10mS Min.
Line Regulation	±1% Max. at Full Load
Load Regulation	±5% Max. at Full Load
Inrush Current	<i>See Chart</i>
Withstanding Voltage	4242 VDC Between Primary and Secondary Circuit
Insulation Resistance	50 MΩ Min. from Output to Ground
Mean Time Between Failure (MTBF)	50,000 Hours Min., Full Load at 25°C Ambient

Safety

EMI Requirements	Meets Conduction Limits of: (A) FCC Part-15 Class B (B) EN55022 Class B
Safety Standards	Meets or Exceeds: (A) UL/ c-UL (B) TUV/GS (C) CE (D) FCC



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Output Voltage and Current Chart

Model Number**	Output Voltage	Maximum Output Current	Inrush Current	Ripple & Noise	Maximum Output Power
SP130D1R <u>Y</u> 12R	12 VDC	10.83 A	45A at 110 Vac 90A at 220Vac	2.0% Max.	130W
SP150D1R <u>Y</u> 12R	12 VDC	12.5 A	50A at 110 Vac 100A at 220 Vac	2.0% Max.	150W
SP150D1R <u>Y</u> 18R	18 VDC	8.33 A	45A at 110 Vac 90A at 220Vac	1.5% Max.	150W
SP150D1R <u>Y</u> 19R	19 VDC	7.89 A	45A at 110 Vac 90A at 220Vac	1.5% Max.	150W
SP150D1R <u>Y</u> 20R	20 VDC	7.5 A	45A at 110 Vac 90A at 220Vac	1.5% Max.	150W
SP150D1R <u>Y</u> 24R	24 VDC	6.25 A	50A at 110 Vac 100A at 220 Vac	1.5% Max.	150W
SP170D1R <u>Y</u> 18R	18 VDC	9.47 A	50A at 110 Vac 100A at 220 Vac	1.5% Max.	170W
SP180D1R <u>Y</u> 19R	19 VDC	9.47 A	50A at 110 Vac 100A at 220 Vac	1.5% Max.	180W
SP180D1R <u>Y</u> 20R	20 VDC	9.0 A	45A at 110 Vac 90A at 220Vac	1.5% Max.	180W
SP180D1R <u>Y</u> 24R	24 VDC	7.5 A	50A at 110 Vac 100A at 220 Vac	1.5% Max.	180W

** To Determine Part Number:

- Replace "Y" with Required Input Socket Style Designation (C6 = "6", C14 = "9")

Example: SP150D1R924R indicates a Unit with a C14 Input Socket.

Note:

Output connector to be specified

Standard Connector is a 5-Pin Din Plug

The cable length and wire gauge will be dependent on Energy Efficiency requirements for each level

