



SP150D – SP200D Series

Desk-Top, Switch Mode Power Supply
RoHS 2 Compliant, Energy 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
- Energy Efficiency Level: V
- RoHS 2 (2011/65/EU) Compliant



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63 Hz
Input Current	4.0 A Max. at 115 VAC 2.0 A Max. at 230 VAC
Safety Ground Leakage Current	0.75mA Max.

Output

Output Voltage & Current	See Chart
Ripple & Noise (P-P)	1.5% Max.
Over-Voltage Protection	150% Max. of Rated Voltage
Over-Current Protection	110% - 150% of Rated Output Current 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 Level V Criteria
No Load Power Consumption	≤0.5 Watts
Hold-Up Time	10mS Min.
Line Regulation	±1% Max. at Full Load
Load Regulation	See Chart
Inrush Current	See Chart
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 (E) CCC (F) BSMI (G) PSE (H) TUV/ S-Mark (I) KC (excludes 150 Watt unit)



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Output Voltage and Current Chart

Model Number**	Output Voltage	Maximum Output Current	Inrush Current	Load Regulation	Maximum Output Power
SP150D <u>Y</u> 12R	12 VDC	12.5 A	60A at 110 Vac 120A at 220Vac	5%	150W
SP180D <u>Y</u> 12R	12 VDC	15.0 A	50A at 110 Vac 100A at 220 Vac	5%	180W
SP180D <u>Y</u> 18R	18 VDC	10.0 A	60A at 110 Vac 120A at 220Vac	5%	180W
SP180D <u>Y</u> 19R	19 VDC	9.47 A	60A at 110 Vac 120A at 220Vac	5%	180W
SP180D <u>Y</u> 20R	20 VDC	9.0 A	60A at 110 Vac 120A at 220Vac	10%	180W
SP180D <u>Y</u> 24R	24 VDC	7.5 A	50A at 110 Vac 100A at 220 Vac	5%	180W
SP190D <u>Y</u> 18R	18 VDC	10.52 A	50A at 110 Vac 100A at 220 Vac	5%	190W
SP200D <u>Y</u> 19R	19 VDC	10.52 A	50A at 110 Vac 100A at 220 Vac	10%	200W
SP200D <u>Y</u> 20R	20 VDC	10.0 A	60A at 110 Vac 120A at 220Vac	10%	200W
SP200D <u>Y</u> 24R	24 VDC	8.33 A	60A at 110 Vac 120A at 220Vac	10%	200W

** To Determine Part Number:

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

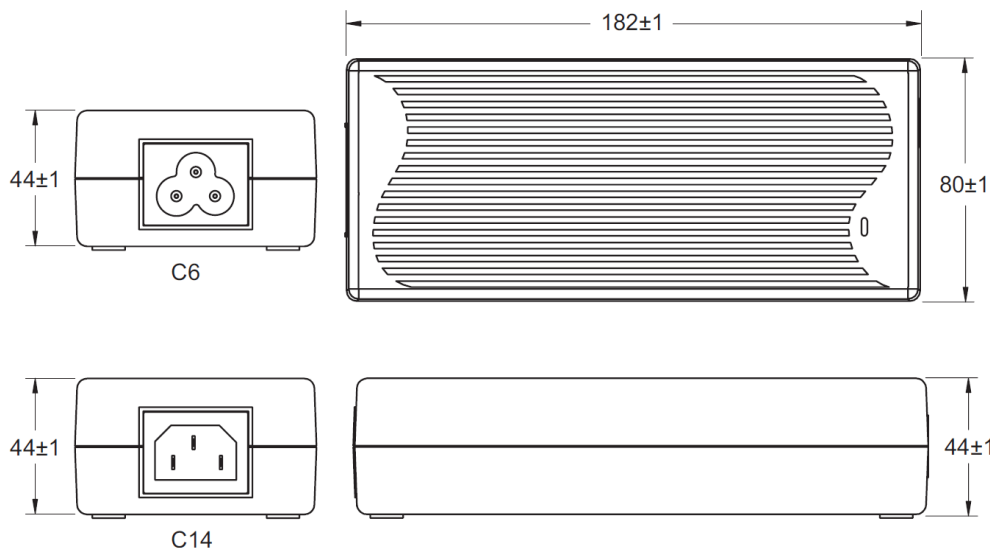
Example: SP150D912R indicates a Unit with a C14 Input Socket.

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



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