



Features:

- Universal Input 90 – 264 VAC
- 5 VDC to 35 VDC
- 20 to 36 Watts
- Slim, Compact Design
- Over-Voltage Protection
- Short Circuit Protection
- LED Power Indicator
- Available w/ C14, C8 and C6 Input Receptacle
- CEC Level IV Compliant



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	1.0A Max. @ 115 VAC 0.5A Max. @ 230 VAC
No Load Power Consumption	≤0.5 Watts
Safety Ground Leakage Current	0.25mA Max. @ 240 VAC, Full Load

Output

Output Voltage & Current	See Chart
Ripple & Noise (P-P)	See Chart
Over-Voltage Protection	150% Max. of Rated Volt.
Over-Current Protection	Protected to Short Circuit Conditions with Auto-Recovery
Temperature Coefficient	± 0.04% / °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
Hold-Up Time	8.3mS Min.
Line Regulation	±1% Max. at Full Load
Load Regulation	±5% Max.
Inrush Current	30A @ 115 VAC Max. 60A @ 230 VAC Max. at 25°C Cold Start
Withstanding Voltage	4242 VDC from Primary to Secondary Circuit
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 (C) EN55022 Class B
Safety Standards	Meets or Exceeds: (A) UL (G) C-UL (B) TUV/GS (H) CE (C) EK (9V - 12V) (I) CB (D) DoIR+C-Tick (J) FCC (E) SEMKO (K) BSMI (F) PSE (L) CCC



SP20D4 – SP36D4 Series

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

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Output Voltage and Current Chart

Model Number**	Output Voltage Range†	Maximum Output Current	Maximum Output Power	Ripple & Noise
SP20D4 \underline{Y} XXR	5 - 8 VDC	4.00 A	20 Watts	100 mV
SP20D4 \underline{Y} XXR	9 - 12 VDC	2.00 A	20 Watts	250 mV
SP20D4 \underline{Y} XXR	13 - 20 VDC	1.54 A	20 Watts	250 mV
SP20D4 \underline{Y} XXR	21 - 35 VDC	0.95 A	20 Watts	350 mV
SP30D4 \underline{Y} XXR	5 - 8 VDC	3.50 A	25 Watts	100 mV
SP30D4 \underline{Y} XXR	9 - 12 VDC	3.00 A	30 Watts	250 mV
SP30D4 \underline{Y} XXR	13 - 20 VDC	2.30 A	30 Watts	250 mV
SP30D4 \underline{Y} XXR	21 - 35 VDC	1.42 A	30 Watts	350 mV
SP36D4 \underline{Y} XXR	12 VDC	3.00 A	36 Watts	250 mV
SP36D4 \underline{Y} XXR	21 - 35 VDC	1.50 A	36 Watts	350 mV

** To Determine Part Number:

- Replace "Y" with Required Input Socket Style Designation: C6 = "6", C8 = "8", C14 = "9"
- Replace "XX" with Required Output Voltage (5VDC = "05", 12VDC = "12", 50VDC = "50", ect.)

Example: SP20D4924R indicates a 20-watt, 24VDC Unit with a C14 Input Socket.

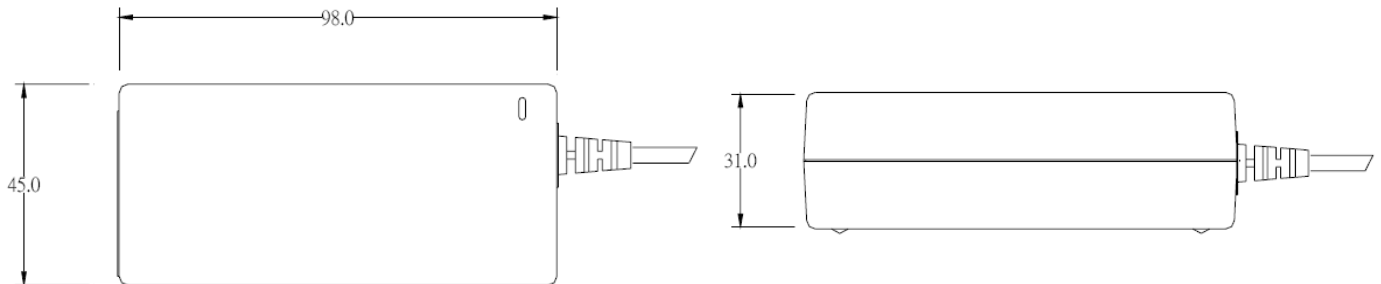
† Output Voltages between stated values are also available.

Note:

Output connector to be specified

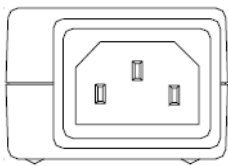
Standard Connector is a 2.5 x 5.5 x 11mm Female Barrel Plug, Center Positive (+)

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

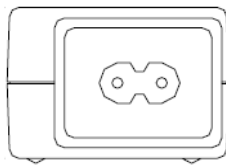


Note:

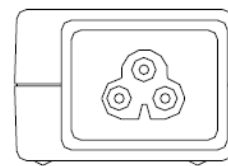
Determine part number by selecting Input Socket Style Designation (below) in place of "Y"



C14 = "9"



C8 = "8"



C6 = "6"



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