



Features:

- Universal Input 100 – 240 VAC
- 5 VDC to 48 VDC
- 15 to 20 Watts
- Over-Current Protection
- 100% Burn-In
- LED Indication
- C-8 or C-6 Input Socket Available
- RoHS Compliant
- CEC Efficiency Level: V



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	0.4A Max at 115VAC 0.25A Max at 230VAC
Safety Ground Leakage Current	SP20P6 Series: 0.75mA SP20P8 Series: 0.25mA Max. @ 240VAC, Full Load

Output

Output Voltage & Current	See Chart
Ripple & Noise (P-P)	1% Max, Full Load @ 90VAC Input
Over-Current Protection	Output Protected to Short Circuit Conditions
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	5% to 95% Non-Condensing

Electrical

Efficiency	Meets CEC Level V Criteria
No Load Power Consumption	≤0.3 Watts
Hold-Up Time	16mS Max.
Line Regulation	±1% Max. at Full Load
Load Regulation	±5% Max. at 230VAC
Inrush Current	15A @ 115VAC Max. 30A @ 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)	300,000 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 (UL 60950-1) (B) TUV/GS (EN 60950-1) (C) CB (G) PSE (D) CE (H) LPS (E) FCC (F) CEC Level V



SP20P Series

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

Date: 12/20/10

Rev: 121510

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Output Voltage and Current Chart

Model Number**	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SP20PYXXR	5 - 6 VDC	3.00 - 2.50 A	5%	15W
SP20PYXXR	11 - 13 VDC	1.81 - 1.53 A	4%	20W
SP20PYXXR	14 - 16 VDC	1.43 - 1.25 A	4%	20W
SP20PYXXR	21 - 27 VDC	0.95 - 0.74 A	3%	20W
SP20PYXXR	28 - 33 VDC	0.71 - 0.60 A	3%	20W
SP20PYXXR	40 - 48 VDC	0.50 - 0.41 A	3%	20W

** To Determine Part Number:

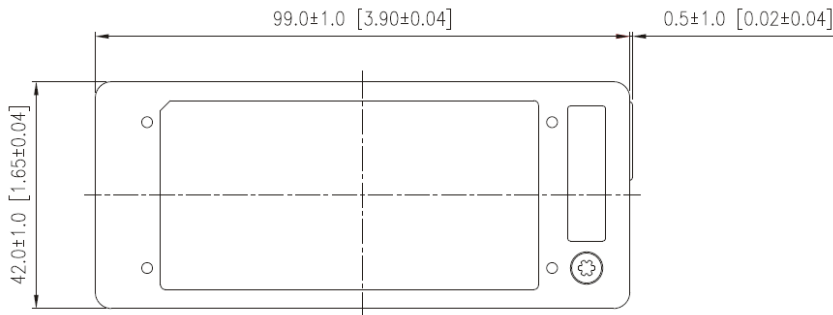
- Replace "Y" with Required Input Socket Style (8 = C-8, 6 = C-6)
- Replace "XX" with Required Output Voltage (5VDC = "05", 12VDC = "12", 48VDC = "48", etc.)

Example: SP20P624R indicates a 24VDC Unit with a C-6 Input Socket.

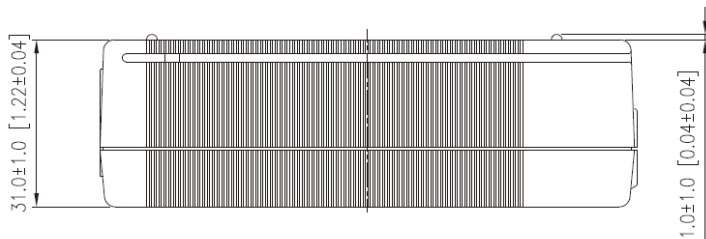
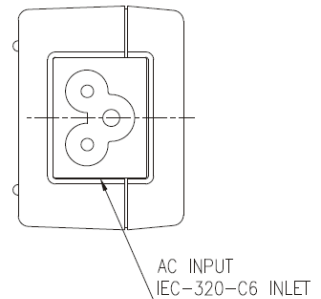
Note: SP20P815R through SP20P848R is NOT PSE approved (15V - 48V Output w/ C8 Input).

Note: Output Connector to be specified.

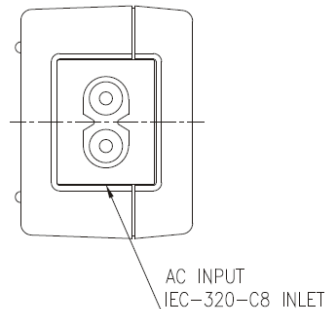
Standard Connector: 4 ft. (AWG#18) cable w/ 2.5x5.5x11mm female barrel coaxial plug, center-hole positive (+).



Order as: SP20P6XXR



Order as: SP20P8XXR



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