



Features:

- Economy Type
- Over-Voltage Protection
- Short Circuit Protection
- Over-Current Protection
- 100% Burn-In
- 100% Hi-Pot Tested
- LED Indication
- RoHS Compliant
- CEC Efficiency Level: IV



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	1.5A Max. @ 115 VAC, 0.7A Max. @ 230 VAC, Full Load
No Load Power Consumption	≤0.5 Watts
Safety Ground Leakage Current	0.1mA Max. @ 240 VAC, 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 with Auto-Recovery
Temperature Coefficient	± 0.04% / °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 IV Criteria
Hold-Up Time	8.3mS Min.
Line Regulation	±1% Max. at Full Load
Load Regulation	±5% Max.
Inrush Current	40A @ 115 VAC Max. 80A @ 230 VAC Max. at 25°C Cold Start
Withstanding Voltage	4000 VAC from Input to Output, 1500 VAC from Input to Ground, 500 VAC from Output 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 (C) EN55022 Class B
Safety Standards	Meets or Exceeds: (A) UL/c-UL (B) TUV/GS (C) CE (D) CB (E) FCC



SM42D - SM55D Series

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

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Output Voltage and Current Chart

Model Number**	Output Voltage†	Maximum Output Current	Ripple & Noise	Maximum Output Power
SM42D <u>Y</u> XXR	12 - 17 VDC	3.5 A	1.2% Max, P-P	42 Watts
SM42D <u>Y</u> XXR	18 - 24 VDC	2.3 A	1.2% Max, P-P	42 Watts
SM50D <u>Y</u> XXR	12 - 17 VDC	4.2 A	1.2% Max, P-P	50 Watts
SM50D <u>Y</u> XXR	18 - 24 VDC	2.8 A	1.2% Max, P-P	50 Watts
SP55D <u>Y</u> XXR	13 - 17 VDC	4.2 A	1.2% Max, P-P	55 Watts
SP55D <u>Y</u> XXR	18 - 24 VDC	3.0 A	1.2% Max, P-P	55 Watts

** To Determine Part Number:

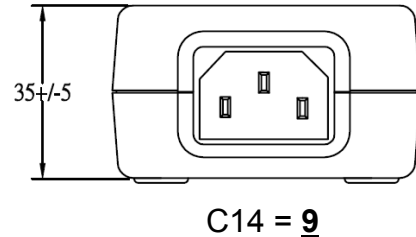
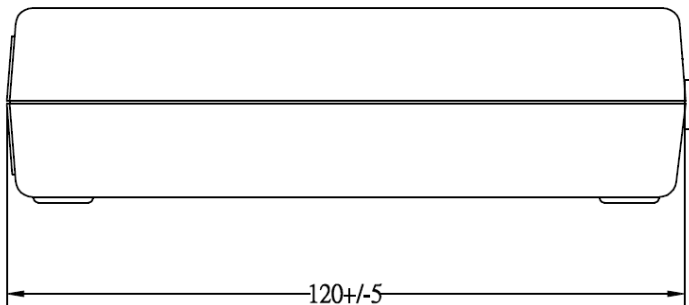
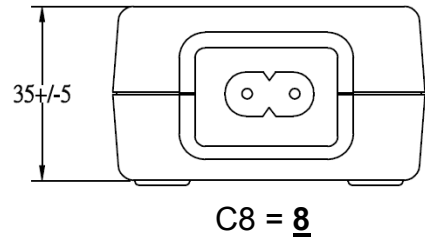
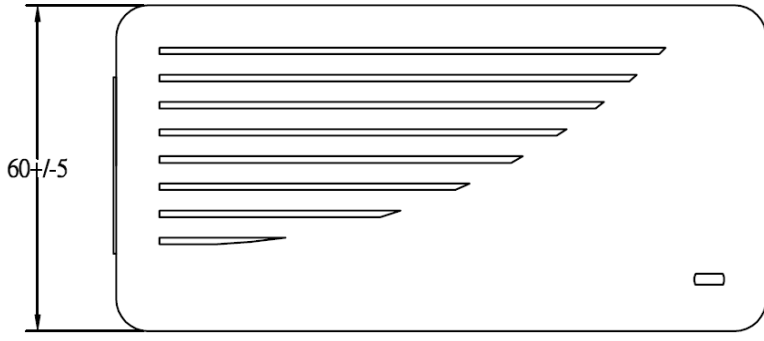
- Replace "Y" with Desired Input Socket (C8 = "8", C14 = "9")
- Replace "XX" with Required Output Voltage (5VDC = "05", 12VDC = "12", 24VDC = "24", ect.)
Example: SM50D924R indicates a 50-watt, 24VDC Unit with C14 Input Socket.

† Output Voltages between stated values are also available.

Note:

Output connector to be specified

Standard Connector is a 6 ft. cable with 2.5 x 5.5 x 11mm Female Barrel Plug, Center Positive (+)



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