SM60P Series

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

Features:

- Universal Input 90 – 240 VAC
- Available with C14, C8, or C6 Input Socket
- Output Voltage available from 12V to 36VDC
- Input Surge Current Protection
- Over-Current Protection
- Over-Voltage Protection
- 100% Burn-In
- RoHS Compliant
- CEC Efficiency Level: V

Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	1.62A Max. at 115VAC, 0.72A Max. at 230VAC, Full Load
Safety Ground Leakage Current	0.3mA Max. @ 240VAC, Full Load

Output

Output Voltage & Current	***See Chart***
Ripple & Noise (P-P)	1% Max., Full Load @ 100VAC Input
Over-Voltage Protection	Set at 112 - 132% of Nominal Output Voltage
Over-Current Protection	Set at 110 - 150% of Nominal Output Current
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 Min.
Line Regulation	±1% Max. at Full Load
Load Regulation	±5% Max. at 230VAC
Inrush Current	30A Max. @ 115VAC 47A Max. @ 230VAC at 25°C Cold Start
Withstanding Voltage	5600 VDC from Primary to Secondary, 2800 VDC from Primary 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) CISPR-11 Class B (B) FCC Part 18 Class B
Safety Standards	Meets or Exceeds: (A) UR Listed (B) UL/c-UL (C) TUV (D) CE (E) CB (F) FCC (G) PSE (for SM60P**9** & SM60P**6** at 12V Output Only) (H) CEC Level

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Single Output Voltage and Current Chart

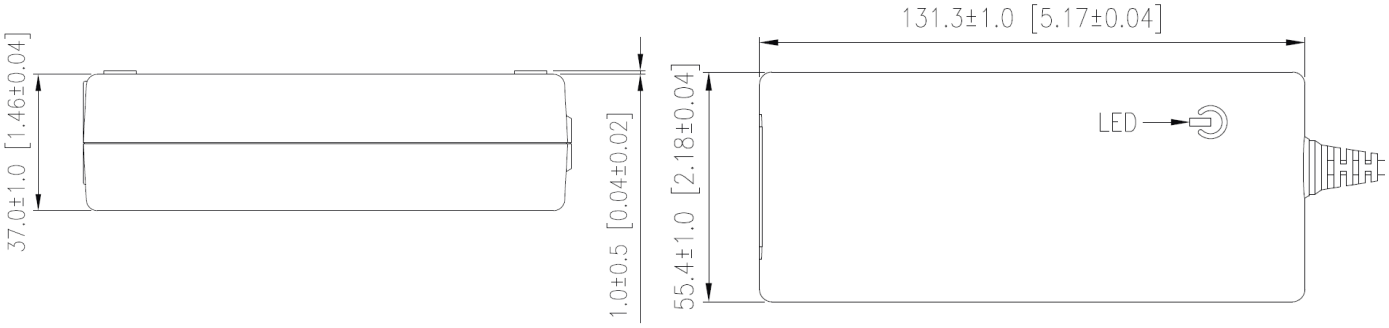
Model Number **	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SM60P**Y**12R	12 VDC	5.25 A	5%	63W
SM60P**Y**15R	15 VDC	4.20 A	5%	63W
SM60P**Y**18R	18 VDC	3.50 A	5%	63W
SM60P**Y**24R	24 VDC	2.62 A	3%	63W
SM60P**Y**30R	30 VDC	2.10 A	3%	63W
SM60P**Y**36R	36 VDC	1.75 A	3%	63W

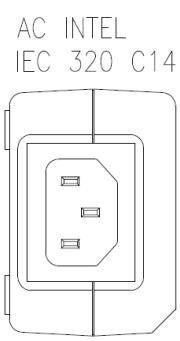
** To Determine Part Number:

- Replace "Y" with Required Input Socket Style (9 = C-14, 8 = C-8, 6 = C-6)

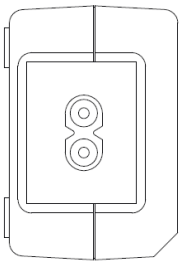
  Example: SM60P**9**24R indicates a 24VDC Unit with a C-14 Input Socket.

Note: Output Connector to be specified.
Standard Termination is a 2.5x5.5x11mm Female Barrel Plug, Center Positive (+).
Standard Cable Length for 12VDC – 18VDC Output is 4 ft., 16AWG.
Standard Cable Length for 24VDC – 36VDC Output is 6 ft., 18AWG.

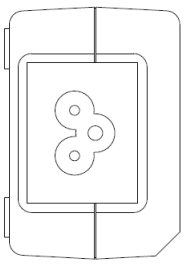




Order as: SM60P**9**__R



Order as: SM60P**8**__R



Order as: SM60P**6**__R

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