SM15P Series

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

Features:

- Universal Input 100 – 240 VAC
- 5 VDC to 36 VDC
- 13 to 15 Watts
- Over-Current Protection
- 100% Burn-In
- LED Indication
- C-14, 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	0.33A Max at 115VAC, 0.18A Max at 230VAC, Full Load
Safety Ground Leakage Current	0.1mA Max. @ 240VAC, Full Load

Output

Output Voltage & Current	***See Chart***
Ripple & Noise (P-P)	1% Max, Full Load @ 90VAC 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	85% Max. at Full Load
Hold-Up Time	16mS Typical
Line Regulation	±1% Max. at Full Load
Load Regulation	±5% Max. at 230VAC
Inrush Current	16A @ 115VAC Max. 30A @ 230VAC Max. 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) FCC Part-15 Class B (B) FCC Part-18 Class B (C) EN55022 Class B
Safety Standards	Meets or Exceeds: (A) UL (B) C-UL (C) TUV (D) CB (E) CE (F) FCC (G) PSE (5V, 9V - 24VDC Output)

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Output Voltage and Current Chart

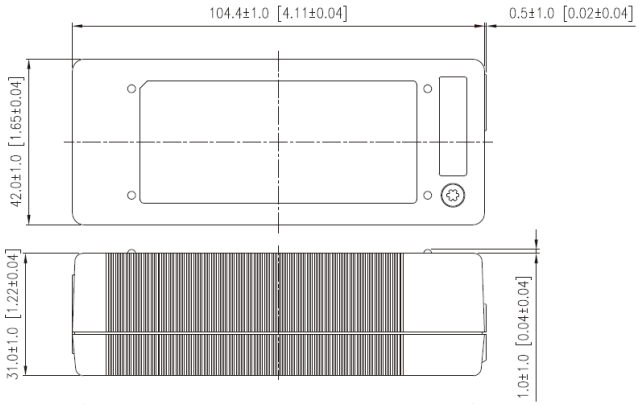
Model Number**	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SM15PY05R	5 VDC	2.60 A	5%	13W
SM15PY07R	7 VDC	1.85 A	5%	13W
SM15PY09R	9 VDC	1.66 A	5%	12W
SM15PY12R	12 VDC	1.25 A	5%	15W
SM15PY16R	16 VDC	0.93 A	5%	15W
SM15PY18R	18 VDC	0.83 A	5%	15W
SM15PY24R	24 VDC	0.62 A	3%	15W
SM15PY30R	30 VDC	0.50 A	3%	15W
SM15PY36R	36 VDC	0.41 A	3%	15W

** To Determine Part Number:

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

  Example: SM15P**9**24R indicates a 24VDC Unit with a C-14 Input Socket.

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: SM15P**9**__R

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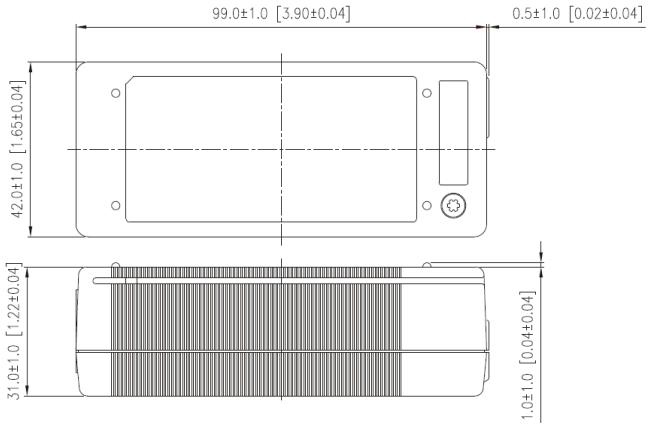
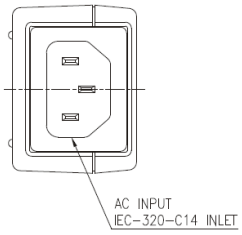
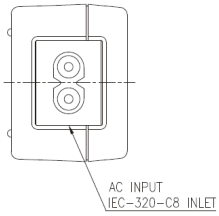
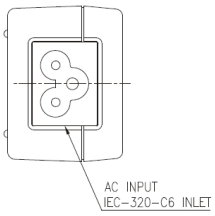


Order as: SM15P**8**__R

Order as: SM15P**6**__R







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