



SP160Q Series

160 Watts

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

Date: 9/18/12

Rev: 040112

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Features:

- Universal Input 100 – 240 VAC
- 12 VDC to 48 VDC
- Over-Current Protection
- Over-Voltage Protection
- Short Circuit Protection
- 100% Burn-In
- RoHS Compliant
- CEC Efficiency Level: V



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	2.2A Max.
Safety Ground Leakage Current	3.5mA Max. @ Full Load

Output

Output Voltage & Current	See Chart
Ripple & Noise (P-P)	1%~2% Max., Full Load
Over-Voltage Protection	Unit is Protected to Over-Voltage Conditions
Over-Current Protection	Output Protected to Short Circuit Conditions
Transient Response	Full Load to Half Load: 0.5mS 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 80°C
Relative Humidity	10% to 90% Non-Condensing

Electrical

Efficiency	Meets CEC Level V Criteria
No Load Power Consumption	≤0.5 Watts
Hold-Up Time	10mS @ Full Load
Load Regulation	±5% Typical
Withstanding Voltage	3000 VAC from Primary to Secondary
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) EN55022 Class B
Safety Standards	Meets or Exceeds: (A) UL/ C-UL (B) FCC (C) CB (D) CE (E) GS (F) PSE (G) BSMI (H) RCM



Output Voltage and Current Chart

Model Number**	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SP160QY12R	12 VDC	12.5 A	5%	150W
SP160QY19R	19 VDC	8.4 A	5%	160W
SP160QY24R	24 VDC	6.6 A	5%	160W
SP160QY48R	48 VDC	3.3 A	5%	160W

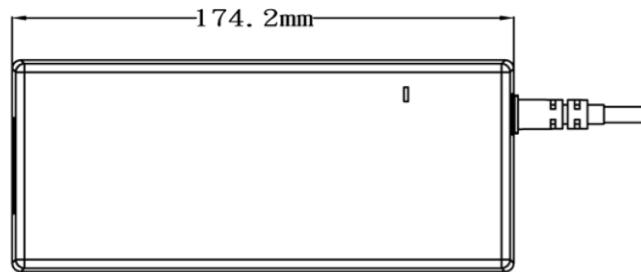
** To Determine Part Number:

- Replace "Y" with Required Input Socket Style Designation: C6 = "6", C14 = "9"

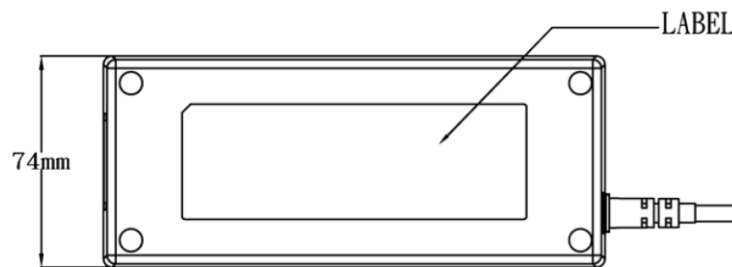
Example: SP160Q924R indicates a 24VDC Unit with C14 Input Socket.

Note: Output connector to be specified.

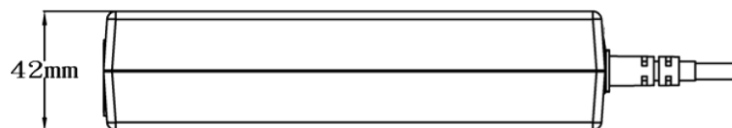
The cable length, wire gauge, and output connector will be dependant on CEC requirements for each current level.



TOP-VIEW



BOTTOM-VIEW



SIDE-VIEW

