



SP40Q Series

36 – 40 Watts

Date: 6/25/13

Rev: 060113

Page: 1 of 2

Desk-Top, Switchmode Power Supply
RoHS 2 Compliant, Energy Efficiency Level V



Features:

- Universal Input 100 – 240 VAC
- 9 VDC - 24 VDC
- IEC320-C6, C8, C14 Input Socket Available
- Over-Current Protection
- Over-Voltage Protection
- Short Circuit Protection
- 100% Burn-In
- RoHS 2 Compliant
- Energy Efficiency Level V, ErP Stage 2, NRCan



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	1.0A Max.
Safety Ground Leakage Current	0.25mA for 2-pin Input 3.50mA for 3-pin Input

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 40°C
Storage Temperature	-20°C to +80°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	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) GS (C) CB (D) CE (E) FCC (F) LPS (G) PSE (H) BSMI (I) RCM



Output Voltage and Current Chart

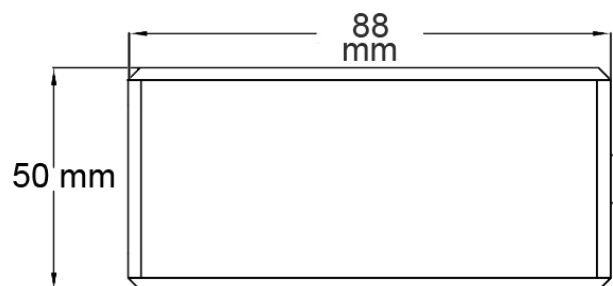
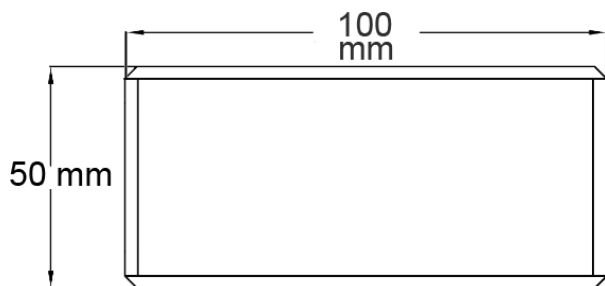
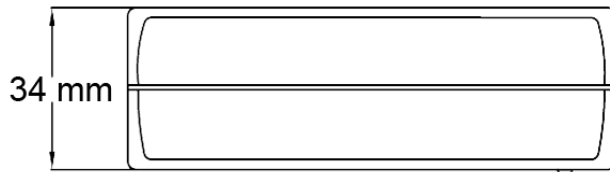
Model Number**	Output Voltage	Maximum Output Current	Total Regulation	Maximum Output Power
SP40Q <u>Y</u> 09R	9 VDC	4.0 A	5%	36W
SP40Q <u>Y</u> 12R	12 VDC	3.0 A	5%	36W
SP40Q <u>Y</u> 15R	15 VDC	2.6 A	5%	40W
SP40Q <u>Y</u> 16R	16 VDC	2.5 A	5%	40W
SP40Q <u>Y</u> 18R	18 VDC	2.2 A	5%	40W
SP40Q <u>Y</u> 20R	24 VDC	1.67 A	5%	40W

** To Determine Part Number:

- Replace "Y" with Required Input Socket Style Designation: C6 = "6", C8 = "8", C14 = "9."

Example: SP40Q912R indicates a 12VDC Unit with C14 Input Socket.

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



Order as: SP40Q6XXR

Order as: SP40Q9XXR

Order as: SP40Q8XXR

