



SP25Q – SP36Q Series

25 - 36 Watt AC - DC Desktop Power Supply
UL/EN/IEC 62368-1 2nd Ed., DoE VI, CoC v5 Tier 2

Date: 9/26/18

Rev: 061418

Page: 1 of 3

The SP25Q – SP36Q Series switch mode power supply offers 25 Watts to 36 Watts output power, with an output voltage range of 5 Vdc - 48 Vdc. Case style is a desktop enclosure with choice of IEC 320 C8 and C14 input socket, with UL/cUL, EN, IEC 62368-1 2nd Edition and UL/cUL, EN, IEC 60950-1 2nd Edition safety approvals, as well as DoE Level 6 and CoC v5 Tier 2 efficiency.



Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current	1.0 A Max.
Leakage Current	C8 Model: 0.25 mA Max. C14 Model: 3.5 mA Max.
Output Voltage & Current	See Table on Page 2
Ripple & Noise ¹ (P-P)	2% Max.
Over-Voltage Protection	180% Max.
Over-Current Protection	205% Max.
Transient Response Time	50% Load Change: 0.5 ms
Efficiency	Meets DoE Level VI and CoC v5 Tier 2 Criteria
No Load Power Consumption	Meets DoE Level VI and CoC v5 Tier 2 Criteria
Load Regulation	± 5% Typ.
Hold-Up Time	10 ms Min.
Mean Time Between Failure	300,000 Hrs. Min. (Telcordia, Full Load at 25°C)
Operating Temperature	0 to 40°C
Storage Temperature	-20 to 80°C
Weight	160 - 170 g (Ref.)
Industry Compliance	RoHS 2, DoE VI, and CoC v5 Tier 2
EMI Requirements	Meets Conduction and Radiation Limits of: FCC Part 15 Class B, CISPR-32 Class B, EN 55032 Class B
Safety Compliance	UL/cUL (UL/CSA 62368-1:2 nd Ed., 60950-1:2 nd Ed.), GS (EN 60950-1:2 nd Edition), CB (EN/IEC 62368-1:2 nd Ed.), CE, RCM, PSE, BSMI, CCC (C14 Input Only), LPS

Features:

- Universal Input 100 - 240 Vac
- IEC 320 C14 and C8 Input
- Over-Voltage Protection
- Over-Current Protection
- Short Circuit Protection
- 100% Burn-In
- RoHS 2 Compliant
- DoE Level VI, CoC v5 Tier 2

Note:

1. Measured w/ 0.1 µF ceramic capacitor & 47 µF electrolytic capacitor in parallel and a 20 MHz Bandwidth-limited scope.



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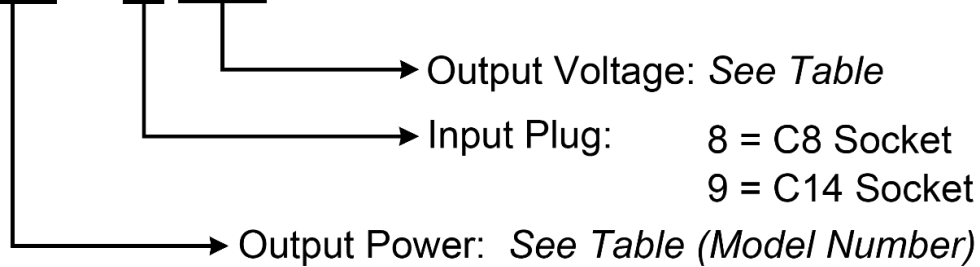
Rev: 061418

Page: 2 of 3

Output Voltage and Current Table

Model Number	Output Voltage	Output Current	Output Power
SP25Q_05R	5 Vdc	5.00 A	25 W
SP30Q_07R	7.5 Vdc	4.00 A	30 W
SP30Q_08R	8.5 Vdc	3.52 A	30 W
SP30Q_09R	9 Vdc	3.34 A	30 W
SP30Q_12R	12 Vdc	2.50 A	30 W
SP36Q_12R	12 Vdc	3.00 A	36 W
SP36Q_13R	13.5 Vdc	2.66 A	36 W
SP36Q_15R	15 Vdc	2.40 A	36 W
SP36Q_16R	16 Vdc	2.25 A	36 W
SP36Q_18R	18 Vdc	2.00 A	36 W
SP36Q_24R	24 Vdc	1.50 A	36 W
SP36Q_48R	48 Vdc	0.75 A	36 W

SP Q R



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Specification subject to
change without notice



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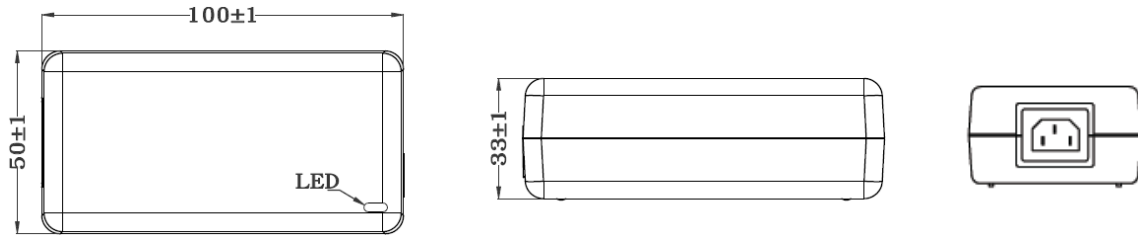
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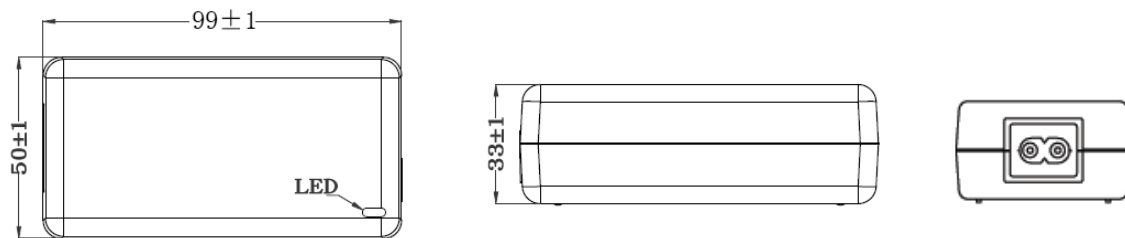
Page: 3 of 3

Mechanical Specification (mm)

SP__Q9: C14 Inlet



SP__Q8: C8 inlet



Note: Output connector to be specified by customer.
APX will be happy to recommend the appropriate connector for your application needs.
The cable length and wire gauge will be dependent on the Energy Efficiency level requirements.