



SP240Q - SP250Q Series

240 - 250 Watt AC - DC Desktop Power Supply
UL/EN/IEC 62368-1 2nd Ed., DoE VI, CoC v5 Tier 2

Date: 10/1/18

Rev: 110617

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The SP240Q – SP250Q Series switch mode power supply offers 240 – 250 Watts output power, with an output voltage range of 12 to 56 Vdc. Case style is a desktop enclosure with an IEC-320 C14 input socket, with UL/EN/IEC 62368-1 2nd Edition and 60950-1 2nd Edition safety approvals, DoE Level 6 and CoC v5 Tier 2 efficiency.

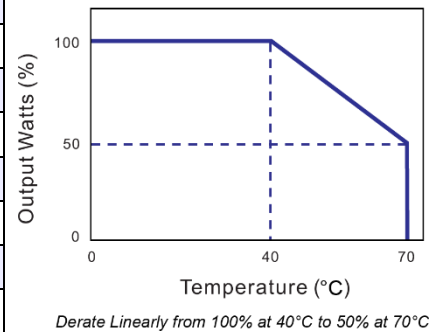


Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current	3.3 A Max.
Safety Ground Leakage Current	3.5 mA Max.
Output Voltage & Current	See Table on Page 2
Ripple & Noise ¹ (P-P)	2% Max.
Over-Voltage Protection	Unit is protected from over-voltage conditions
Over-Current Protection	Unit is protected from over-current conditions
Over- Temperature Protection	Unit is protected from over-temperature conditions
Transient Response	50% Load Change from: 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
Line Regulation	± 1% Max. at Full Load
Load Regulation	± 5% Typ.
Hold-Up Time	10 ms Min.
Mean Time Between Failure	Full Load at 25°C Ambient: 300,000 Hrs. Min. (Telcordia)
Operating Temperature	See Derating Curve
Storage Temperature	-20 to 80°C
Weight	1040 g (Typ.)
Industry Compliance	RoHS 2, DoE VI, CoC v5 Tier 2
EMC Requirements	EN 55024, EN 61000-3-2, -3-3
EMI Requirements	Meets Conduction and Radiation Limits of: FCC Part 15 Class B, CISPR-32 Class B, and 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 Ed.), CB (62368-1:2 nd Ed.), CE, RCM, PSE, CCC, BSMI,

Features:

- Universal Input 100 - 240 Vac
- IEC 320 C14 Input
- Internal Primary Current Fuse
- Over-Voltage Protection
- Over-Current Protection
- Over-Temperature Protection
- Short Circuit Protection
- 100% Burn-In
- RoHS 2 Compliant
- DoE Level VI
- CoC v5 Tier 2

Derating Curve



Note:

1. Ripple & Noise are measured with a 0.1 µF multilayer capacitor & 10 µF low ESR electrolytic capacitor in parallel and a 20 MHz bandwidth-limited scope.



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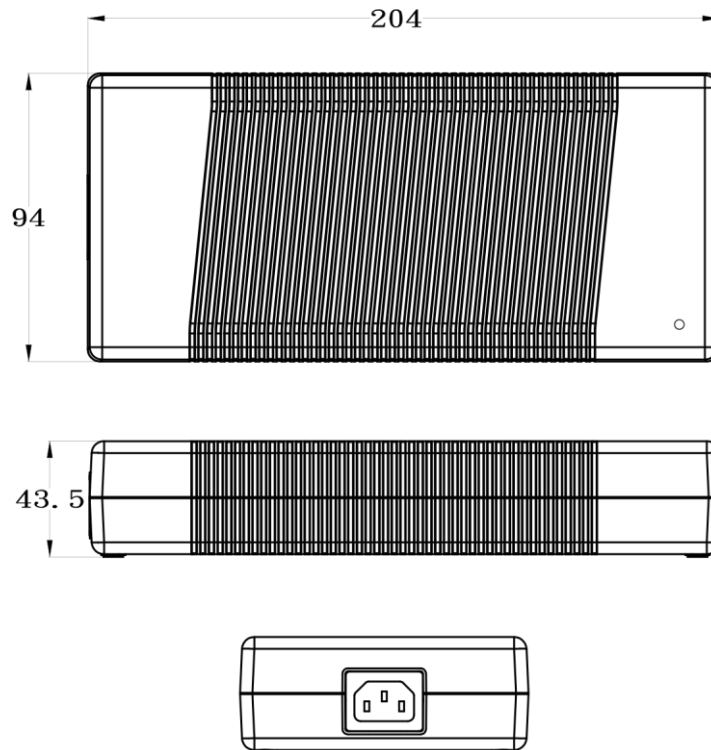
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Output Voltage and Current Table

Model Number	Output Voltage	Output Current	Output Power
SP240Q912R	12 Vdc	20.00 A	240 W
SP250Q919R	19 Vdc	13.20 A	250 W
SP250Q924R	24 Vdc	10.40 A	250 W
SP250Q948R	48 Vdc	5.20 A	250 W
SP250Q956R	56 Vdc	4.48 A	250 W

Mechanical Specification (mm)



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.