



SP288Q - SP300Q Series

288 - 300 Watt AC - DC Desktop Power Supply
UL/EN/IEC 62368-1 2nd Ed., DoE Level VI

Date: 10/1/18

Rev: 082618

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The SP288Q - SP300Q Series switch mode power supply offers 288 – 300 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, and DoE Level 6 efficiency.



Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current	3.9 A Max.
Safety Ground Leakage Current	3.5 mA Max.
Withstanding Voltage	Primary to Secondary: 3000 Vac
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P) ¹	1% 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
Temperature Coefficient	± 0.04% / °C Max.
Transient Response	With 50% Load Change: 0.5 ms
Efficiency	Meets DoE Level VI Criteria
No Load Power Consumption	Meets DoE Level VI 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 Hours Min (Telcordia)
Operating Temperature	0 to 40°C
Storage Temperature	-20 to 80°C
Weight	1,600g (Ref.)
Industry Compliance	RoHS 2, DoE VI
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.), CE, CB (62368-1:2 nd Ed.), BSMI, PSE

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

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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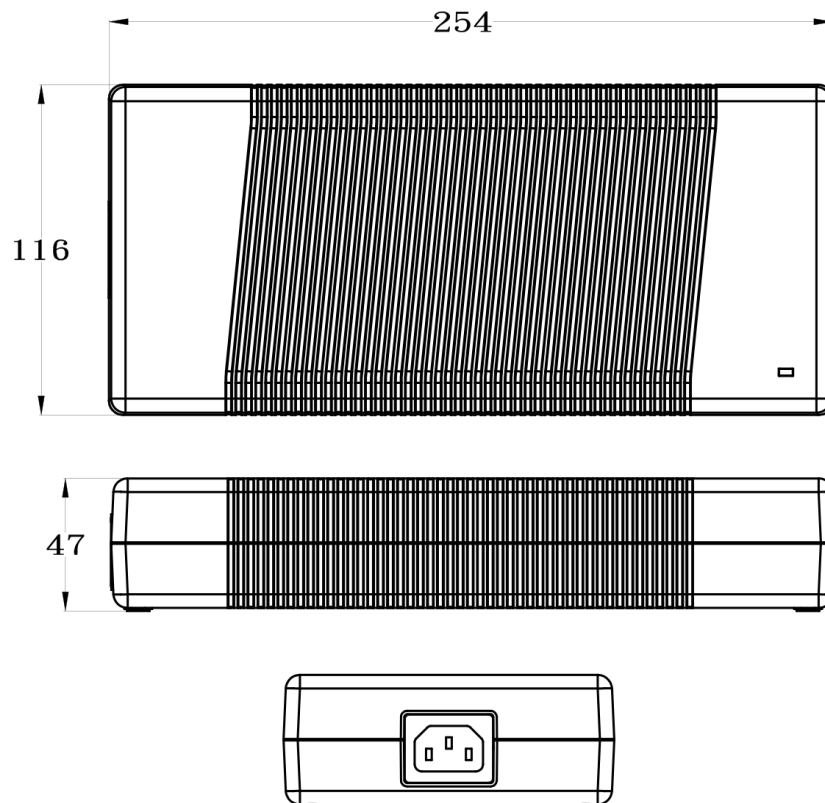
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Output Voltage and Current Table

Model Number	Output Voltage	Output Current	Output Power
SP288Q912R	12 Vdc	24.00 A	288 W
SP300Q919R	19 Vdc	15.75 A	300 W
SP300Q924R	24 Vdc	12.50 A	300 W
SP300Q948R	48 Vdc	6.25 A	300 W
SP300Q956R	56 Vdc	5.36 A	300 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.