



SP65Q1R Series

65 Watt AC - DC Desktop Power Supply

UL/cUL, EN, IEC 62368-1 2nd Edition, DoE Level VI

Date: 10/4/18

Rev: 061418

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The SP65Q1R Series switch mode power supply offers 65 Watts output power, with an output voltage range of 15 Vdc - 24 Vdc. Case style is a desktop enclosure with choice of IEC 320 C6 input socket, with UL/cUL, EN and 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	1.4 A Max.
Leakage Current	3.5 mA Max.
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P) ¹	1% Max.
Over-Voltage Protection	150% Max., Auto-recovery
Over-Current Protection	180% Max., Auto-recovery
Transient Response Time	50% Load Change: 0.5 ms
Efficiency	Meets DoE Level VI Criteria
No Load Power Consumption	0.21 Watts Max.
Load Regulation	± 5% Max.
Hold-Up Time	10 ms Min.
Withstanding Voltage	Primary to Secondary: 3,000 Vac Primary to Frame Ground: 1,500 Vac
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	248 g (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.), CB (EN/IEC 62368-1 2 nd Ed.), CE, PSE, BSMI, CCC, FCC, LPS

Features:

- Universal Input 100 - 240 Vac
- IEC 320 C6 Input
- Over-Voltage Protection
- Over-Current Protection
- Short Circuit Protection
- 100% Burn-In
- RoHS 2 Compliant
- Energy Efficiency Level: DoE VI
- UL/cUL, EN, IEC 62368-1 2nd Ed.

Notes:

1. Measured w/ 0.1 µF ceramic capacitor & 10 µF electrolytic capacitor in parallel and a 20 MHz Bandwidth-limited scope.



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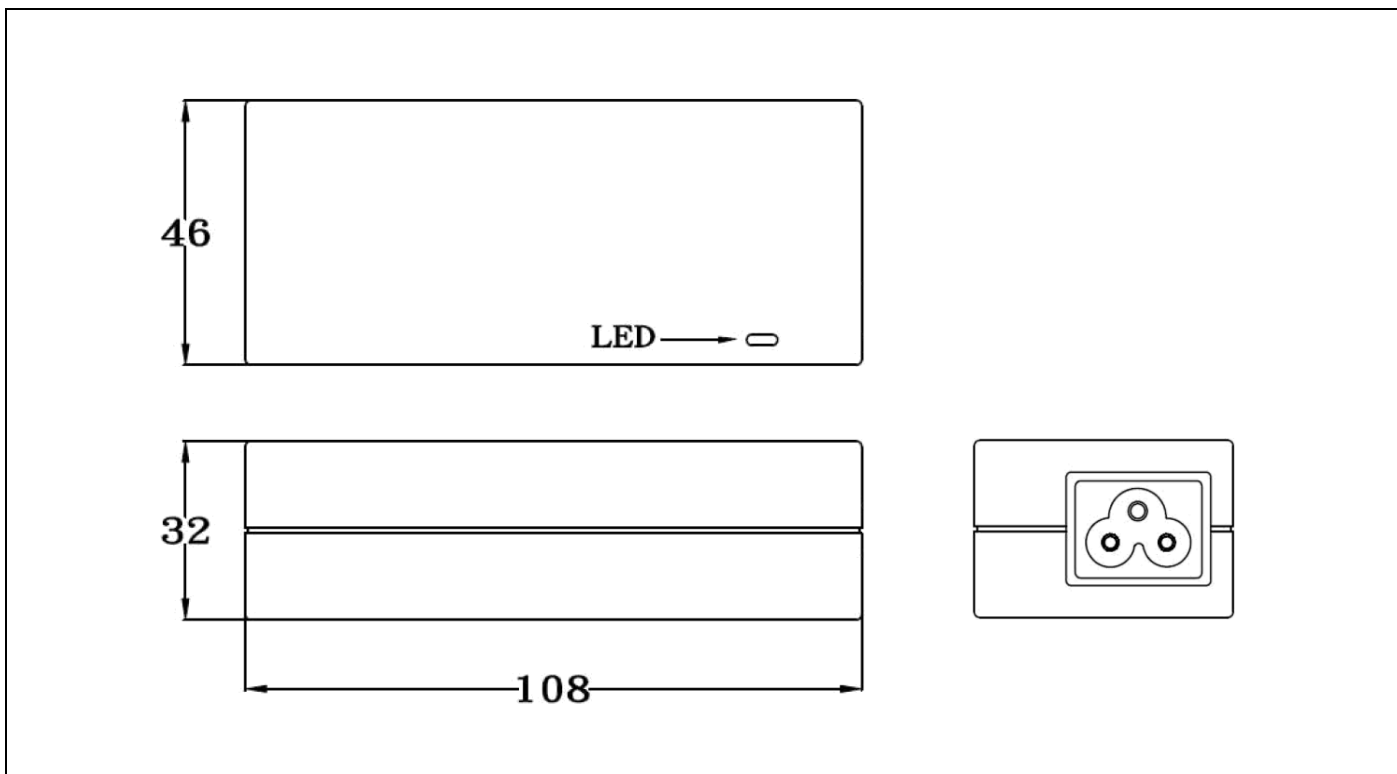
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Output Voltage and Current Table

Model Number	Output Voltage	Output Current	Output Power
SP65Q1R615R	15 Vdc	4.34 A	65 W
SP65Q1R616R	16 Vdc	4.07 A	65 W
SP65Q1R618R	18 Vdc	3.62 A	65 W
SP65Q1R619R	19 Vdc	3.43 A	65 W
SP65Q1R620R	20 Vdc	3.25 A	65 W
SP65Q1R624R	24 Vdc	2.71 A	65 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.