



SP07QY – SP12QY Series

7 - 12 Watt AC - DC Wall Plug-In Power Supply
UL/EN/IEC 62368-1 2nd Ed., DoE VI, CoC v5 Tier 2

Date: 9/25/18

Rev: 080118

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The SP07QY – SP12QY Series switch mode power supply offers 7 Watts to 12 Watts output power, with an output voltage range of 3.3 Vdc - 24 Vdc. Case styles include U.S., European, and British input prongs, with UL/cUL, IEC and EN 60950-1 2nd Edition and UL 62368-1 safety approvals, DoE Level VI and CoC v5 Tier 2.



Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current	0.31 A Max.
Leakage Current	0.25 mA Max.
Withstanding Voltage	Primary to Secondary: 3000 Vac
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P)	2% Max.
Over-Voltage Protection	Unit is protected from over-voltage conditions
Over-Current Protection	Unit is protected from over-current conditions
Transient Response Time	With 50% Load Change: 0.5 ms
Efficiency	Meets Energy Efficiency Level VI and CoC v5 Tier 2 Criteria
No Load Power Consumption	Meets Energy Efficiency Level VI and CoC v5 Tier 2 Criteria
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	US: 126 g European Model: 128 g British Model: 130 g
Industry Compliance	RoHS 2, DoE Level VI, CoC v5 Tier 2
EMI Requirements	Meets Conduction and Radiation Limits of: FCC Part 15 Class B, CISPR-32 Class B, and EN 55032 Class B
Safety Compliance	US Model: UL/cUL (UL 62368-1:2 nd Ed., UL 60950-1:2 nd Ed.), PSE, BSMI, CB (IEC 62368-1:2 nd Ed.), FCC, LPS British & European Model: CE (EN 60950-1:2 nd Ed.), CB (EN 62368-1:2 nd Ed.), TUV/GS, LPS

Features:

- Universal Input 100 - 240 Vac
- Available with U.S., European, and British case styles
- Over-Voltage Protection
- Over-Current Protection
- Short Circuit Protection
- 100% Burn-In
- RoHS 2 Compliant
- DoE Level VI
- CoC v5 Tier 2

Notes:

1. Ripple & Noise are measured with a 0.1 µF multilayer capacitor & 47 µF low ESR electrolytic capacitor in parallel and a 20 MHz bandwidth-limited scope.



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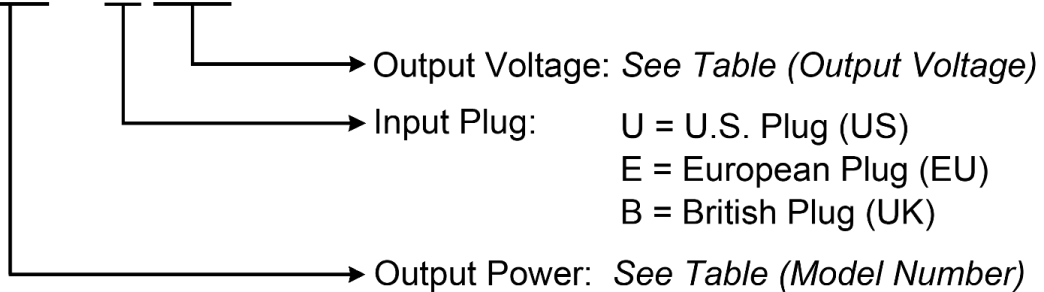
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Output Voltage and Current Table

Model Number	Output Voltage	Maximum Output Current	Maximum Output Power
SP07Q_03R	3.3 Vdc	2.00 A	6.6 W
SP10Q_05R	5.0 Vdc	2.00 A	10.0 W
SP12Q_05R	5.0 Vdc	2.50 A	12.5 W
SP12Q_06R	5.9 Vdc	2.00 A	11.8 W
SP12Q_08R	8.4 Vdc	1.30 A	11.0 W
SP12Q_09R	9.0 Vdc	1.20 A	10.8 W
SP12Q_12R	12.0 Vdc	1.00 A	12.0 W
SP12Q_13R	13.5 Vdc	0.89 A	12.0 W
SP12Q_15R	15.0 Vdc	0.80 A	12.0 W
SP12Q_18R	18.0 Vdc	0.67 A	12.0 W
SP12Q_24R	24.0 Vdc	0.50 A	12.0 W

SP Q R





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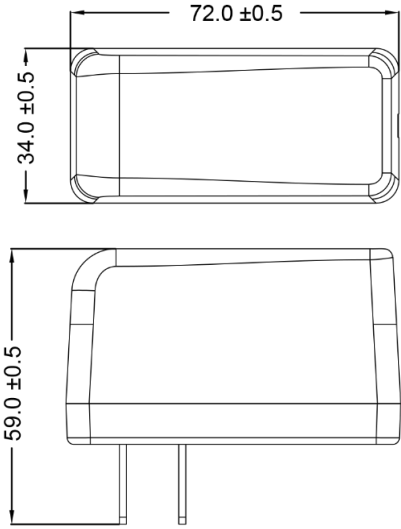
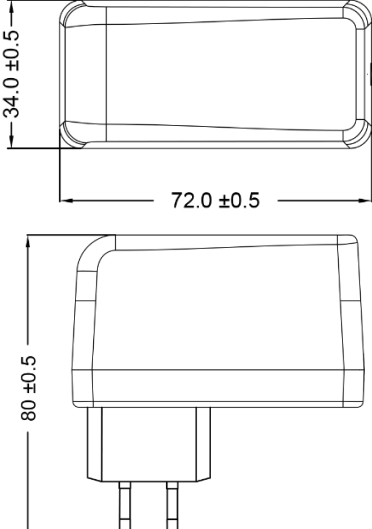
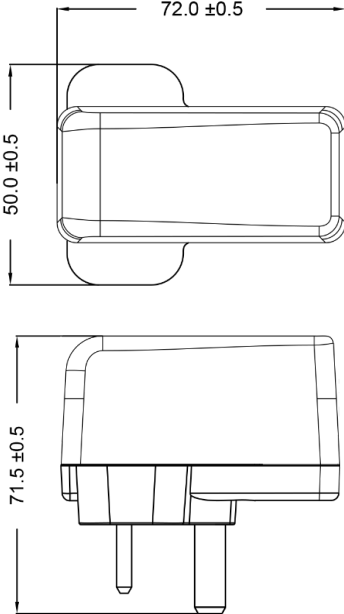
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Mechanical Specification (mm)

SP__QU: US Plug	SP__QE: European Plug
	
SP__QB: British Plug	
	

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.



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