



SM10QY – SM12QY Series

10 - 12 Watt AC - DC Wall Plug-In Power Supply
Energy Efficiency Level VI, RoHS 2 Compliant

Date: 2/11/16

Rev: 021116

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The SM10QY – SM12QY Series switch mode power supply offers 10 Watts to 12 Watts output power, with an output voltage range of 5 Vdc - 24 Vdc. Case styles include U.S., European, and British input prongs, with UL/cUL, IEC and EN 60601-1 3rd Edition safety approvals, and Energy Efficiency Level 6.

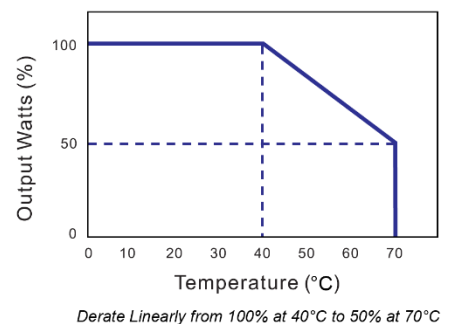


Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current	0.17 - 0.31 A Max
Touch Leakage Current	0.1 mA Max
Withstanding Voltage	Primary to Secondary: 4000 Vac
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P)	2% Max <i>Measured w/ 0.1 μF ceramic capacitor & 47 μF electrolytic capacitor in parallel</i>
Over-Voltage Protection	Unit is protected from over-voltage conditions
Over-Current Protection	Unit is protected from over-current conditions
Temperature Coefficient	$\pm 0.04\%$ / °C Max
Transient Response Time	Load Change from 100% - 50%: 0.5 ms
Efficiency	Meets Energy Efficiency Level VI Criteria
No Load Power Consumption	Meets Energy Efficiency Level VI Criteria
Load Regulation	$\pm 5\%$ Max
Hold-Up Time	10 ms Min
Mean Time Between Failure	Full Load at 25°C Ambient: 300,000 Hours Min (Telcordia)
Operating Temperature	See Derating Curve
Storage Temperature	-20 to 80 °C
Industry Compliance	RoHS 2, Energy Efficiency Level VI
EMI Requirements	Meets Conduction and Radiation Limits of: FCC Part 18 Class B, CISPR-11 Class B, and EN 55011 Class B
Safety Compliance	U.S. Models: UL/c-UL (UL 60601-1:3rd Edition), FCC British & European Models: CE (ANSI/ AAMI/ IEC/ EN 60601-1:3rd Edition)

Features:

- Universal Input 100 - 240 Vac
- Available with U.S., and European, British case styles
- Over-Voltage Protection
- Over-Current Protection
- Short Circuit Protection
- 100% Burn-In
- RoHS 2 Compliant
- 2 MOPP Protection
- Energy Efficiency Level: VI

Derating Curve





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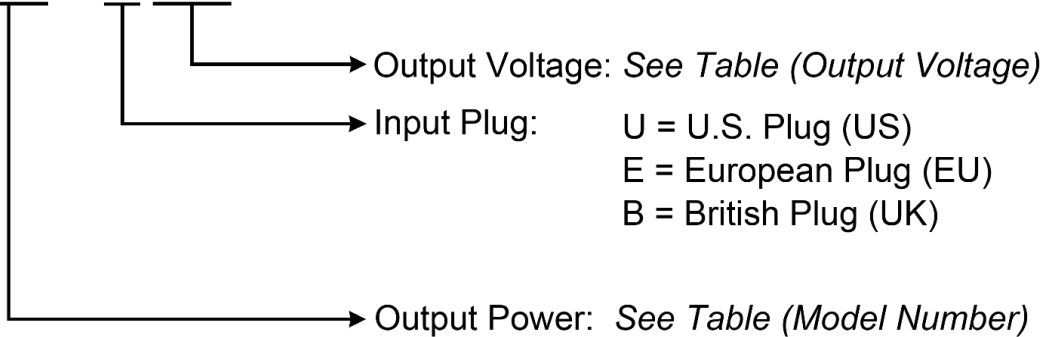
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Output Voltage and Current Table

Model Number	Output Voltage	Output Current <i>Limited to Output Power</i>	Maximum Output Power
SM10Q_05R	5.0 Vdc	2.00 A	10.00 W
SM10Q_06R	5.9 Vdc	1.70 A	10.00 W
SM10Q_07R	7.5 Vdc	1.33 A	10.00 W
SM10Q_09R	9.0 Vdc	1.12 A	10.00 W
SM12Q_12R	12.0 Vdc	1.00 A	12.00 W
SM12Q_15R	15.0 Vdc	0.80 A	12.00 W
SM12Q_18R	18.0 Vdc	0.67 A	12.00 W
SM12Q_24R	24.0 Vdc	0.50 A	12.00 W

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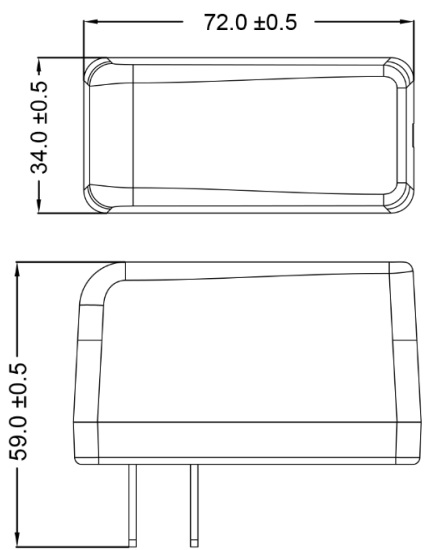
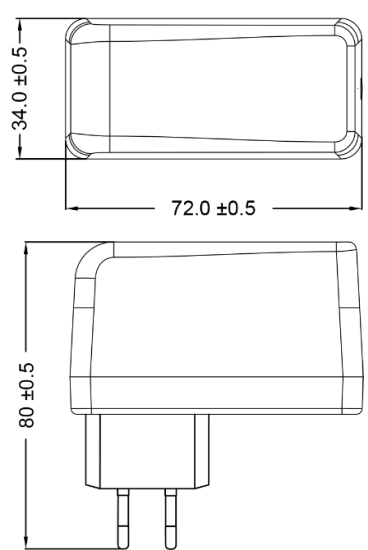
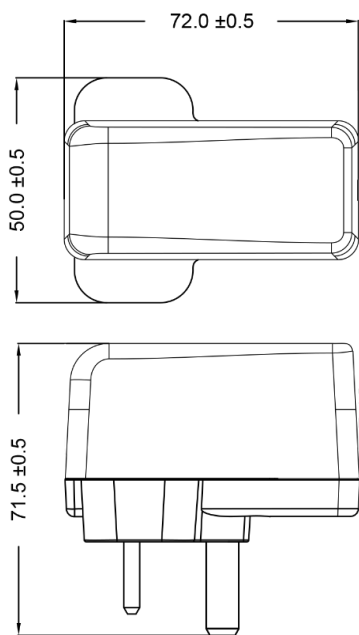
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Mechanical Specification (mm)

SM__QU: U.S. Plug	SM__QE: European Plug
	
SM__QB: British Plug	
	
<p>Note: Output connector to be specified by customer. Standard connector is a 2.5 x 5.5 x 11 mm female barrel plug, center positive (+). The cable length and wire gauge will be dependent on the Energy Efficiency level requirements.</p>	



TECHNOLOGIES INC.
HICKSVILLE, NEW YORK

264 Duffy Avenue
Hicksville, NY 11801

Tel: (516) 433-1313
Fax: (516) 433-1457

Web: www.apxonline.com
Email: sales@apxonline.com

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