



SP25QY – SP36QY Series

25 - 36 Watt AC - DC Wall Plug-In Power Supply

UL/EN/IEC 62368-1 2nd Ed., DOE Level VI, CoC Tier 2

Date: 9/13/18

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The SP25QY – SP36QY Series switch mode power supply offers 25 Watts to 36 Watts output power, with an output voltage range of 5 Vdc - 48 Vdc. Case styles include U.S., European, British, Australian and China input prongs, 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	1.0 A Max.
Inrush Current	70 A @ 230Vac Max. at 25°C Cold Start
Leakage Current	0.25 mA Max.
Output Voltage & Current	See Table on Page 2
Ripple & Noise ¹ (P-P)	2% Max.
Over-Voltage Protection	180% Max.
Over-Current Protection	170% Max.
Transient Response Time	50% Load Change: 0.5 ms
Efficiency	Meets DoE Level VI Criteria and CoC v5 Tier 2
No Load Power Consumption	Meets DoE Level VI Criteria and CoC v5 Tier 2
Load Regulation	± 5% Typ.
Hold-Up Time	10 ms Min.
Withstanding Voltage	Primary to Secondary: 3,000 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	160 - 180 g (Ref.)
Industry Compliance	RoHS 2, Energy Efficiency 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	USA: UL/c-UL (UL 62368-1:2 nd Ed., UL 60950-1:2 nd Ed.), PSE, BSMI, CB, FCC, LPS
	Europe & UK: CE (EN 60950-1:2 nd Ed.), CB (EN 62368-1:2 nd Ed.), TUV/GS, LPS
	Australia: RCM, CB, LPS
	China: CCC, CB, LPS

Features:

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

Notes:

1. Ripple & Noise are measured with a 0.1 µF multilayer capacitor & 0.10 µF low ESR electrolytic capacitor in parallel and a 20 MHz bandwidth-limited scope



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

Specification subject to change without notice



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Output Voltage and Current Table

Model Number	Output Voltage	Maximum Output Current	Maximum Output Power
SP25Q_05R	5.0 Vdc	5.00 A	25 W
SP30Q_07R	7.5 Vdc	4.00 A	30 W
SP30Q_08R	8.5 Vdc	3.52 A	30 W
SP30Q_09R	9.0 Vdc	3.34 A	30 W
SP30Q_12R	12.0 Vdc	2.50 A	30 W
SP36Q_12R	12.0 Vdc	3.00 A	36 W
SP36Q_13R	13.5 Vdc	2.66 A	36 W
SP36Q_15R	15.0 Vdc	2.40 A	36 W
SP36Q_16R	16.0 Vdc	2.25 A	36 W
SP36Q_18R	18.0 Vdc	2.00 A	36 W
SP36Q_24R	24.0 Vdc	1.50 A	36 W
SP36Q_48R	48.0 Vdc	0.75 A	36 W

SP Q R

Output Voltage: See Table (Output Voltage)

Input Plug:

U = U.S. Plug (US)

E = European Plug (EU)

B = British Plug (UK)

A = Australian Plug (AU)

C = China Plug (CN)

Output Power: See Table (Model Number)



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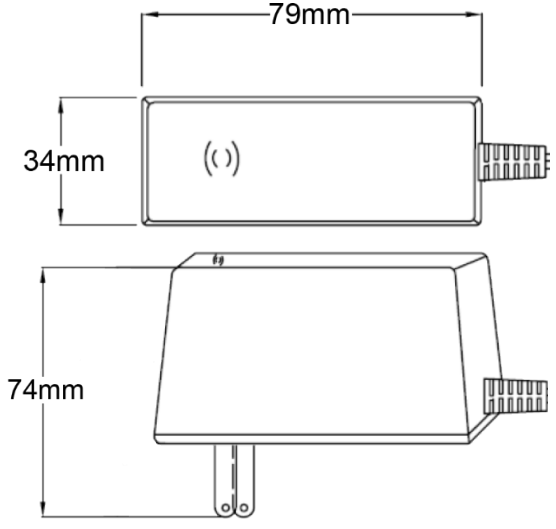
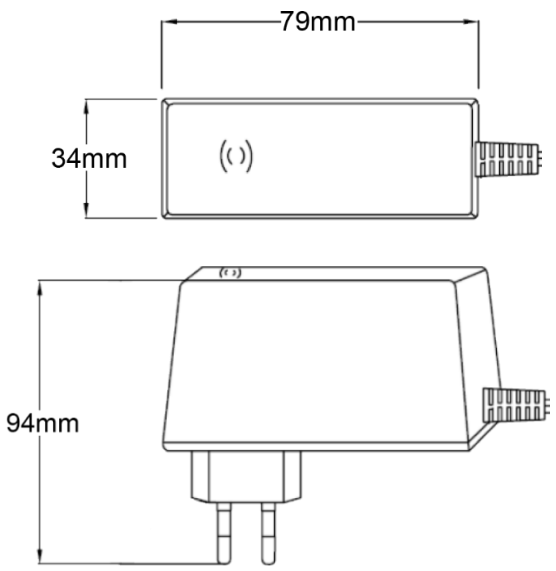
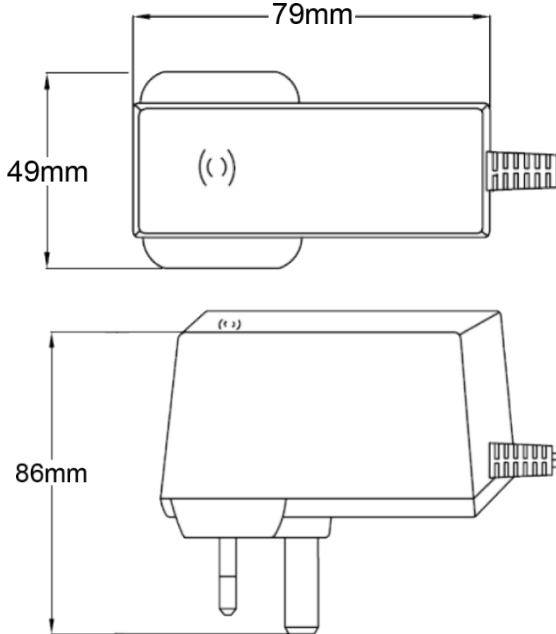
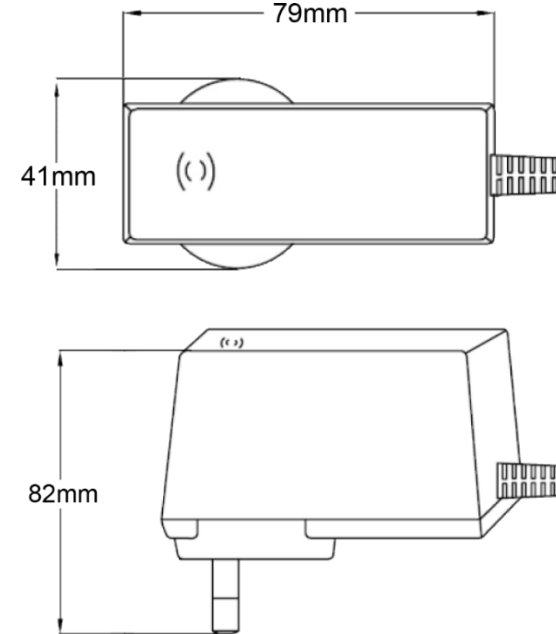
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Mechanical Specification (mm)

SP__QU: U.S. Plug	SP__QC: China Plug	SP__QE: European Plug
 <p>* For U.S. - 12 V @ 2.5 A, 12 V @ 3 A: 75 x 34 x 72 mm (L x W x H)</p>		
SP__QB: British Plug		SP__QA: Australian Plug
		
<p>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.</p>		



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 Hicksville, NY 11801

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