



IM36H Series

36 Watt AC-DC Medical Interchangeable Wall Plug-In
IEC 60601-1-2 4th Ed. EMC, DoE Level VI, CoC v5 Tier 2

Date: 9/28/18

Rev: 083018

Page: 1 of 3

The IM36H Series switch mode power supply offers 36 Watts output power, with an output voltage range of 9 Vdc – 36 Vdc. Case style is an interchangeable wall plug-in with choice of U.S./Japan, Europe, British, Australia, China, and Korea prongs. Meets IEC 60601-1-2 4th Edition EMC, ES/EN/IEC 60601-1 3.1 Ed. safety approvals, UL/EN/IEC 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	0.5 A @ 90 Vac
Inrush Current	70 A Max @ 240 Vac, Cold Start
Leakage Current	≤ 50 μA @ 264 Vac
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P, Max.) ¹	9V – 16V: 400 mV 17V – 25V: 180 mV 26V – 36V: 400 mV
Over-Voltage Protection	120 – 150%
Over-Load Protection	110 – 200%
Efficiency	Meets DoE Level VI and CoC v5 Tier 2
No Load Power Consumption	< 0.075 Watts
Load Regulation	± 5% Typ.
Withstanding Voltage	Primary to Secondary: 5,656 Vac Min.
Mean Time Between Failure	100,000 Hours Min. (MIL-HDBK-217, 25°C Ambient)
Operating Temperature	0 - 40°C
Storage Temperature	-20 to 60°C
Industry Compliance	RoHS 2, DoE Level VI, and CoC v5 Tier 2
Weight	230 g (Ref.)
EMC Requirements	IEC 60601-1-2: 2014 4th Edition
EMI Requirements	Meets Conduction and Radiation Limits of: Medical, Class B: CISPR-11, EN 55011 ITE, Class B: CISPR-32, EN 55032, FCC Part 15
Safety Compliance	Medical: UR/c-UR (ES 60601-1: 3.1 Ed.), CB (IEC 60601-1: 3.1 Ed.), TUV T- Mark (EN 60601-1: 3.1 Ed.), CE ITE: UL/c-UL (UL 60950-1: 2nd Ed.), GS (EN 60950-1: 2nd Ed.), CE, CB (IEC 60950-1: 2nd Ed.) RCM, PSE, CCC, KC (9 - 15V)

Features:

- Dual ITE and Medical Approvals
- U.S./Japan, European, British, Australia, China, and Korea AC Prong Options
- 2x MOPP Protection
- Touch Current: ≤ 50 μA
- Over-Voltage, Over-Current, and Short Circuit Protection
- 100% Burn-In
- RoHS 2 Compliant
- Operating Altitude: 5,000 m
- Meets DoE Level VI, CoC v5 Tier 2
- Meets UL/EN/IEC 60950-1 2nd Edition
- Meets IEC 60601-1-2: 2014 4th Ed. EMC

Notes:

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



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Page: 2 of 3

Output Voltage and Current Table

Model Number	Output Voltage	Output Current <i>Limited to Output Power¹</i>	Output Power
IM36H_ _ _ R	9 - 36 Vdc	1.00 – 4.00 A	36 W

1. To find Output Current:

Output Current = Max Power ÷ Output Voltage

*Example: Output Current for IM36H_15R
(15 Vdc Output)*

Output Current = 36 W ÷ 15 V

Output Current = 2.4 A

IM36H R



Output Voltage: See Table

Input Plug:

- A = Australia Plug (AU)
- B = British Plug (UK)
- C = China Plug (CH)
- E = Europe Plug (EU)
- KC = Korea Plug (KC)
- U = U.S. Plug (US)
- K = Kit with AU, EU, UK and US Plug



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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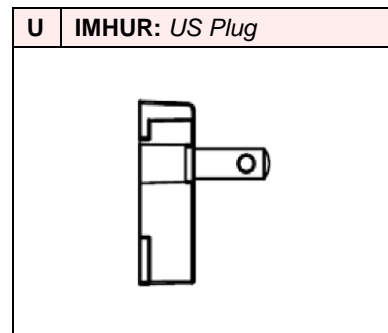
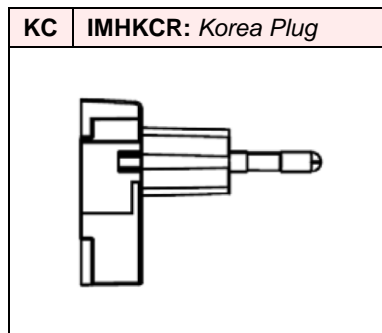
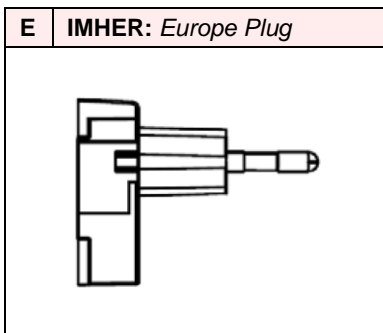
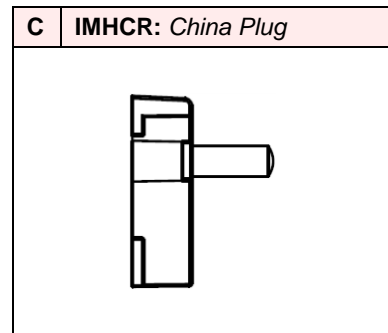
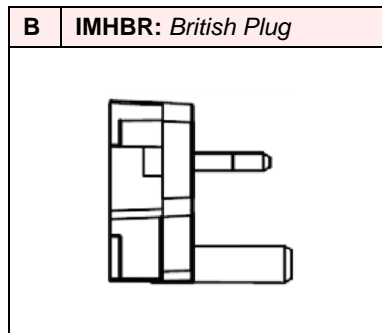
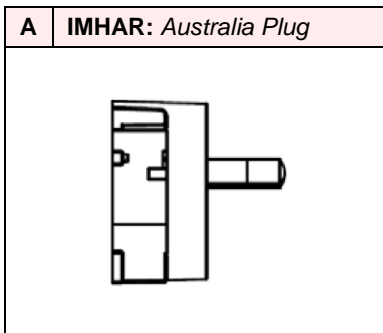
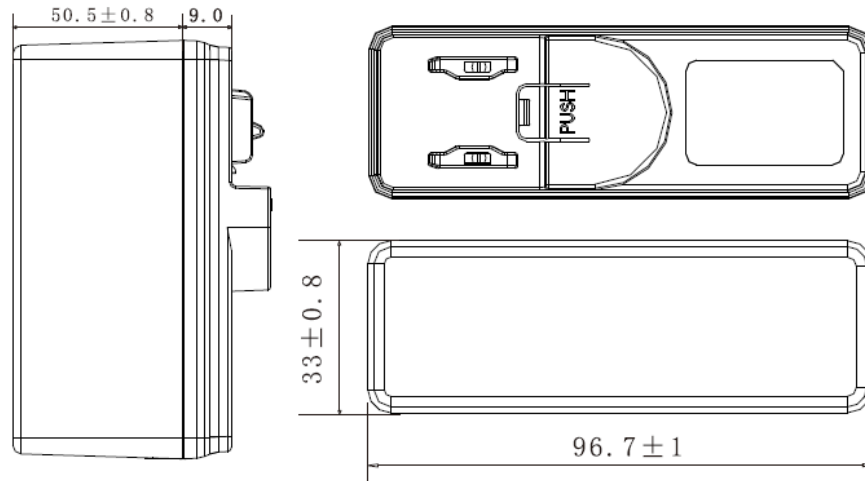
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Page: 3 of 3

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.



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