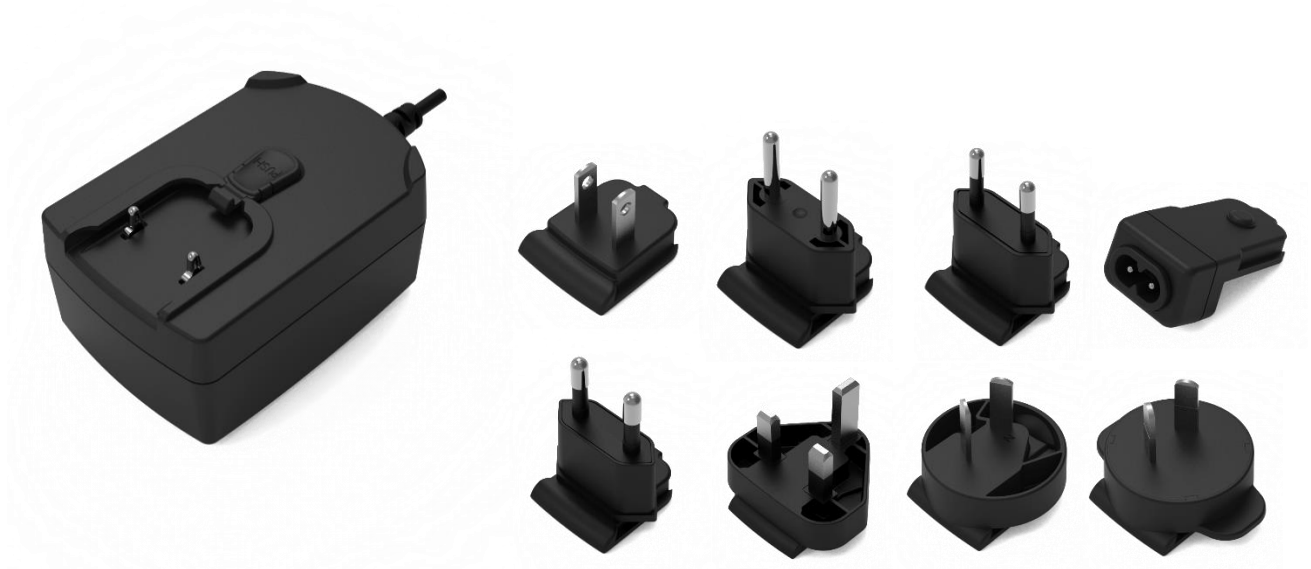


TECHNICAL DATASHEET

20W Interchangeable Wall Mount Adapter Series



Applications

- Wireless Communications
- Portable Equipment
- Peripherals
- Consumer Electronics

Features

- DoE Level VI Compliance
- Ecodesign/ErP Lot 7 (EU) 2019/1782 Compliance
- CoC Version 5 Tier 2 Compliance
- AS/NZS4665.1-2005+A1:2009, AS/NZS4665.2-2005+A1:2009 Compliance
- Limited Power Source
- Class B EMI
- Class II Double Insulated
- Interchangeable Clips (sold separately)

Safety Standards



Dimensions

72.5 x 50.8 x 33.25 mm
(2.85 x 2.00 x 1.31 inch)

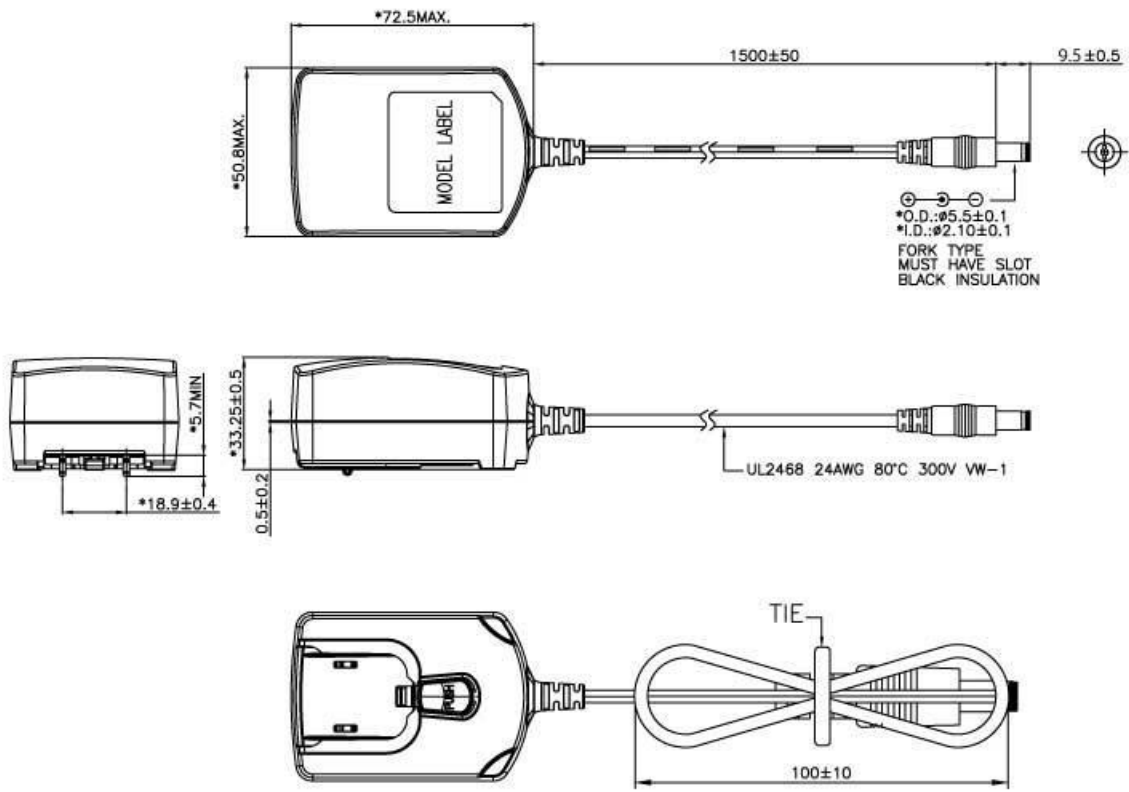
Specifications

AA20R Series Specifications¹


Model		AA20R-120A-R	AA20S-240A-R	AA20S-480A-R
Output	DC Output Voltage	12.0V	24.0V	48.0V
	Max Current	1.67A	0.83A	0.42A
	Output Power	20.04W	19.92W	20.16W
	Regulation	± 5%	± 5%	± 5%
	Ripple & Noise P-P(max)	120mV	240mV	480mV
Input	AC Input Voltage Range	90 to 264VAC		
	AC Input Frequency	47 to 63Hz		
	Input Current	0.5A @120VAC; 0.25A @240VAC		
	Inrush Current	40A max., 120VAC; 80A max., 240VAC (Cold Start at ambient 25°C, full load)		
	No Load Power Consumption at 115VAC Input	0.042W	0.042W	0.038W
	No Load Power Consumption at 230VAC Input	0.063W	0.069W	0.058W
	115VAC Average Efficiency ³	85.99%	88.31%	88.09%
	230VAC Average Efficiency ³	86.19%	87.16%	86.78%
	230VAC 10% Load Efficiency ³	80.29%	79.05%	76.71%
	Leakage Current	<0.25mA		
Protection	Over-Voltage	<23Vpk	<35Vpk	<62Vpk
	Short Circuit	Output can be shorted without damage		
	Over-Current	Auto restart		
Environmental	Operation Temperature	0°C to +40°C		
	Non-Operating Temperature	-25° to +75°C		
	Operating Humidity	20 to +90%		
Safety Approvals and EMC	Dielectric Withstand (Hi-pot)	Primary to Secondary: 3000VAC for 1min, 10mA		
	Insulation Resistance	Input to Output: 50M ohm min., 500VDC		
	Standards	cULus 62368-1, IEC 62368-1, AS/NZS 62368.1:2018		
	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32, AS/NZS CISPR 32:2015, Class B Conducted and Radiated		
	Harmonic Current Emissions	IEC 61000-3-2		
	Voltage Fluctuations & Flicker	IEC 61000-3-3		
	Immunity	EN 55035/CISPR 35: IEC 61000-4-2 (+/- 8kV air, +/- 6kV contact), IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5 (+/- 1kV), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11		
Mechanical	Dimension (LxWxH)	72.5mm (2.85in) x 50.8mm (2.00in) x 33.25mm (1.31in)		
	Weight	146g		
	Cable Length	1500mm		


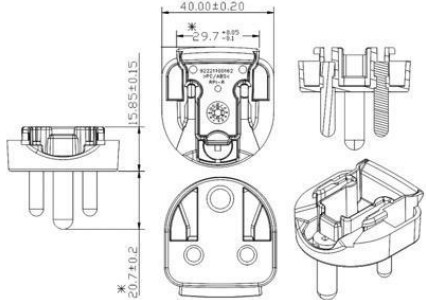

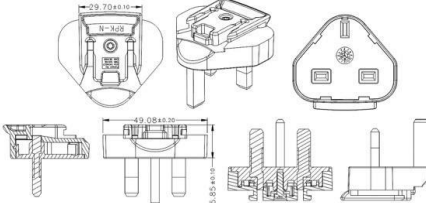

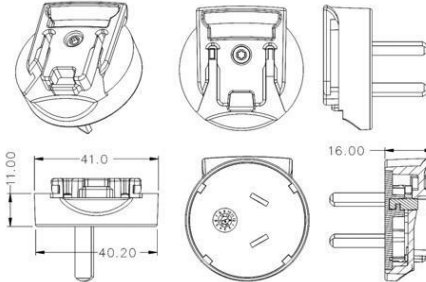

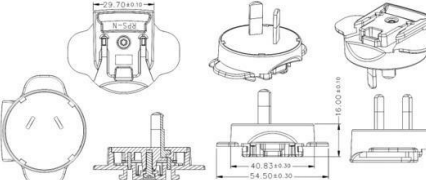

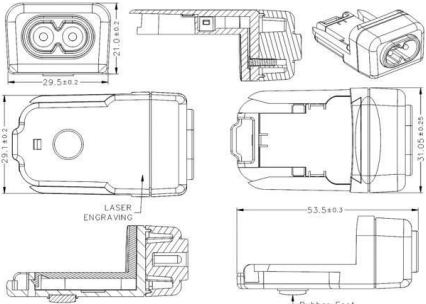

	DC Cable Type	18 AWG	22 AWG	24 AWG
	DC Output Connector	2.1mm x 5.5mm x 10.0mm		
	DC Plug Pin Assignment	Inner (V+) / Outer GND (V-)		
Notes	1. The specifications defined are at ambient temperature of 25°C, unless otherwise specified.			
	2. 20MHz bandwidth frequency oscilloscope, add a 0.1μF multilayer Cap. and Low ESR Electrolytic Cap. (10μF) at output connector terminals (nominal line voltage, full load).			
	3. Efficiency is measured after 30 minutes burn-in.			

AA20R Outline Drawing



AC Input Clips - Sold Separately

Model	Photo	Description	Outline Drawing - mm
RPA-AB01B-H		US Clip	
RPB-AB01B-H		Brazil Clip	
RPC-AB01B-H		China Clip	
RPE-AB01B-H		Europe Clip	
RPH-AB01B-H		Korea Clip	

RPI-AB01B-H		India Clip	
RPA-AB01B-H		UK Clip	
RPB-AB01B-H		Argentina Clip	
RPC-AB01B-H		Australia Clip	
RPX-03-R		C8 Clip	
RPA-AB01B-H, RPE-AB01B-H, RPK-AB01B-H and RPS-AB01B-H interchangeable clips in a plastic bag.			
RPE-AB01B-H			

Phihong Locations



Headquarters Phihong Technology Co., Ltd

No. 568, Fuxing 3rd Rd., Gueishan Dist., Taoyuan City (33383), Taiwan

Tel : +886-3-3277288

Fax : +886-3-3277622

phsales@phihong.com.tw

www.phihong.com.tw



Phihong Technology Co. Ltd. (Tainan R&D Center)

No. 99, Zhengnan 1st. Street, Yongkang Dist., Tainan City 71046, Taiwan

Tel : +886-6-254-7588

Fax : +886-6-254-7288

phsales@phihong.com.tw

www.phihong.com.tw



Phihong China

Room 101, Building 5, 133-1 Tiesong Road, Qingxi Town, Dong Guan City, Guangdong (523642), China

Tel : +86-769-87736405

phsales@phihong.com.tw



Phihong USA

47800 Fremont Blvd., Fremont, CA 94538, U.S.A.

Tel : +1-510-445-0100

Fax : +1-510-445-1678

usasales@phihongusa.com

www.phihong.com



Phihong Japan

PMOEX Nihonbashi Kayabacho 10F, 2-12-10

Nihonbashi Kayabacho, Chuo City, Tokyo 103-0025 Japan

Tel : +81-3-6626-5513

Fax : +81-3-6629-0241

phsales@phihong.com.tw

www.phihong.co.jp



Phihong Vietnam

Lot CN5 An Duong Industrial Zone, Hong Phong Commune, An Duong County, Hai Phong City, Vietnam

Tel : +84-22588-31557