



# 20W Interchangeable Wall Mount Adapter Series



## 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)

## Applications

- Wireless Communications
- Portable Equipment
- Peripherals
- Consumer Electronics

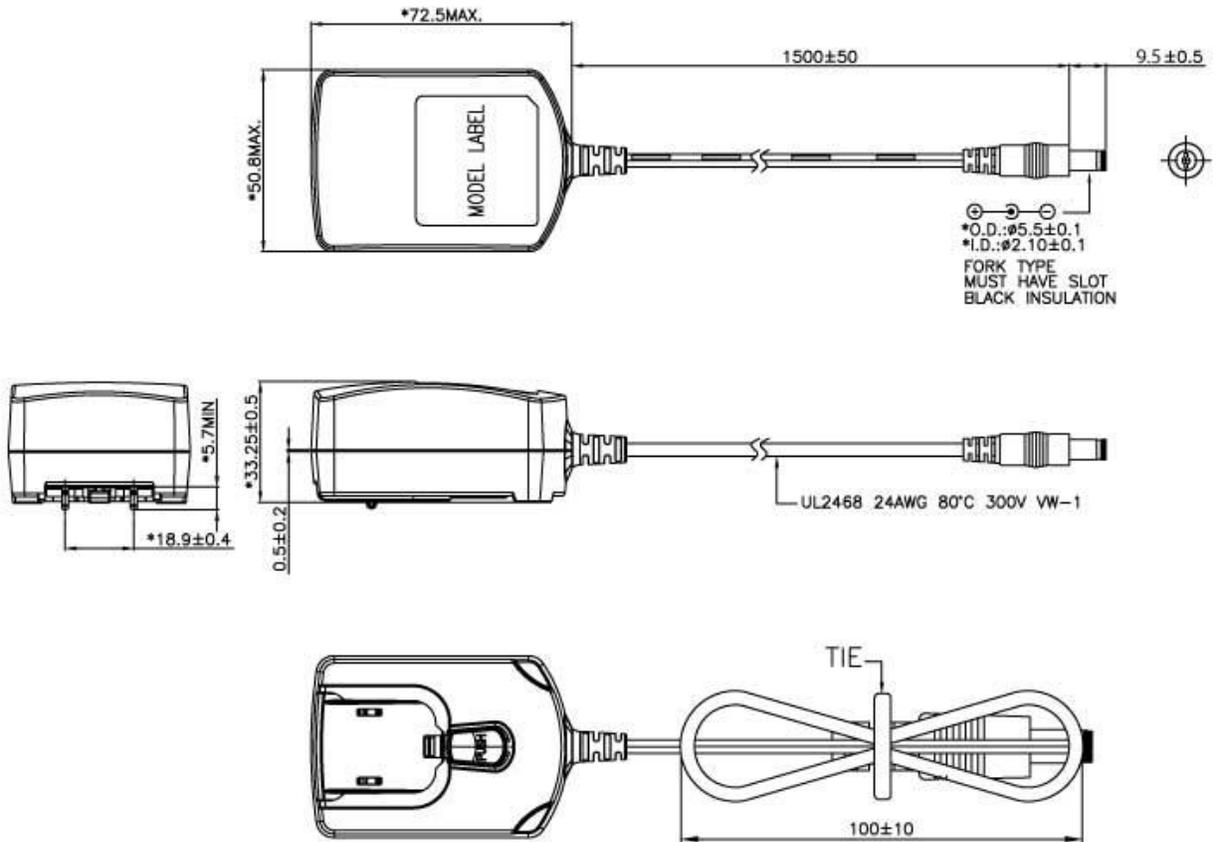


# AA20R Series Specifications<sup>1</sup>

| Model                    |   | AA20R-120A-R   | AA20R-240A-R | AA20R-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) <sup>2</sup>  | 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<br>(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 <sup>3</sup>  | 85.99%   | 88.31%       | 88.09%       |
|                          | 230VAC Average Efficiency <sup>3</sup>  | 86.19%   | 87.16%       | 86.78%       |
|                          | 230VAC 10% Load Efficiency <sup>3</sup>   | 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            | Operating 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               | Dimensions (L x W x H)  | 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                    | <ol style="list-style-type: none"> <li>The specifications defined are at ambient temperature of 25°C, unless otherwise specified.</li> <li>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).</li> <li>Efficiency is measured after 30 minutes burn-in.</li> </ol> |  |              |              |



# AA20R Outline Drawing





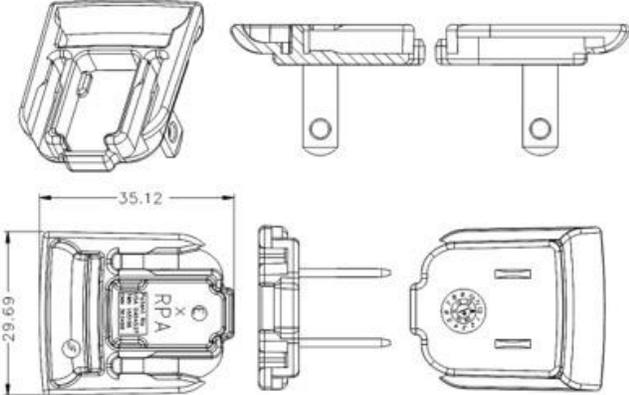
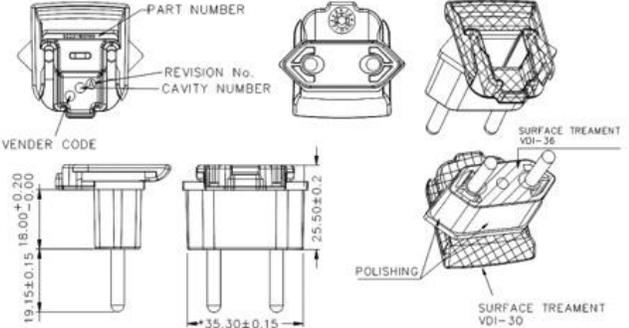
**Supplier's Declaration of Conformity**  
**47 CFR § 2.1077 Compliance Information**

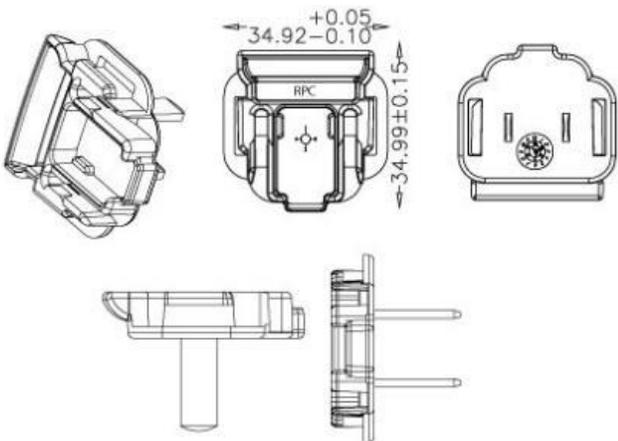
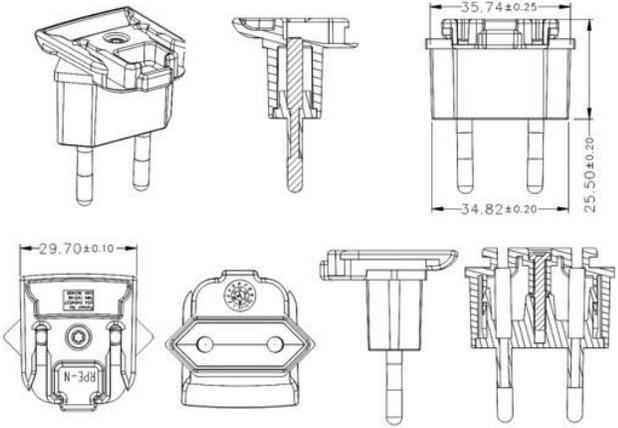
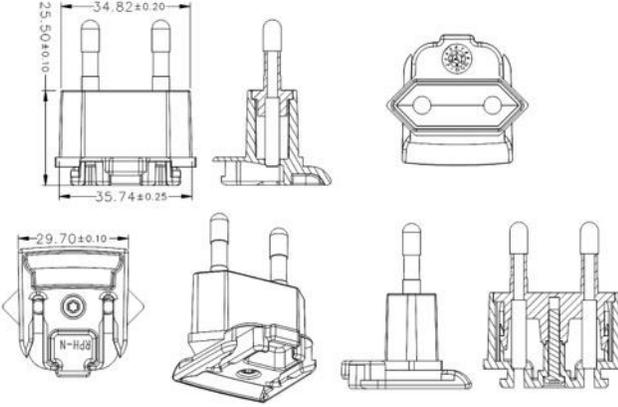
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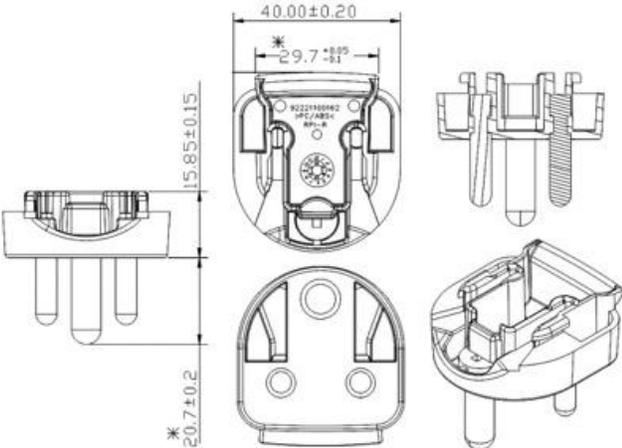
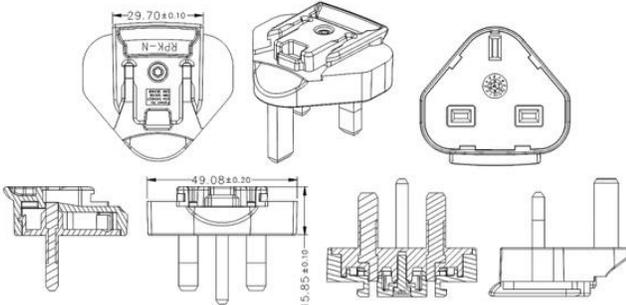
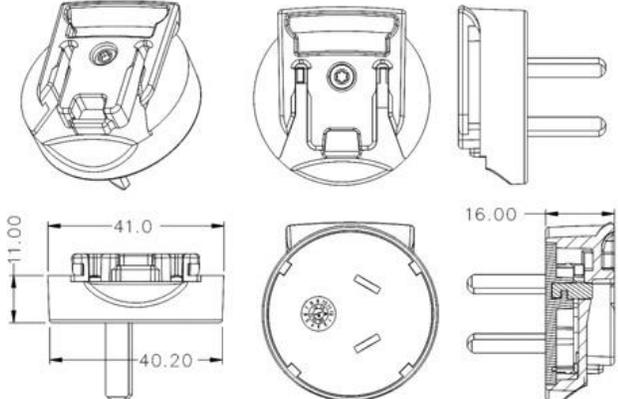
*This device complies with/The devices in this product series comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*

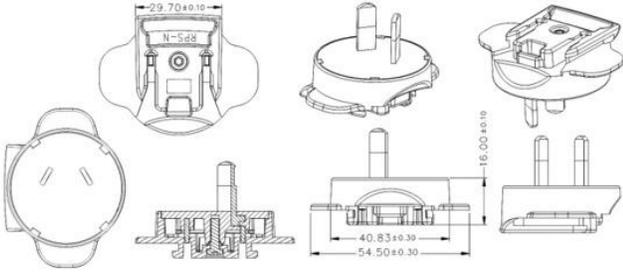
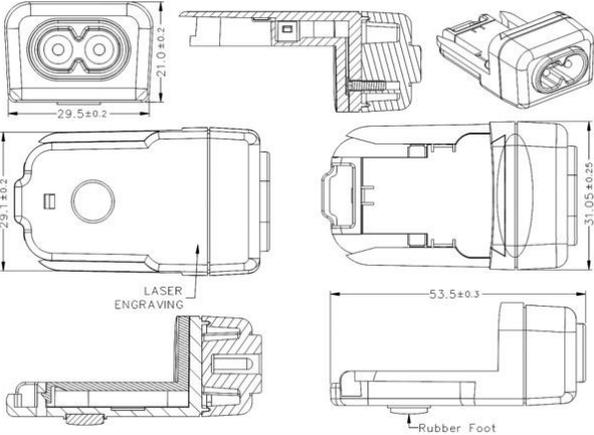


# AC Input Clips - Sold Separately

| Model       | Photo   | Description | Outline Drawing - mm   |
|-------------|---|-------------|--|
| RPA-AB01B-H |    | US Clip     |    |
| RPB-AB01B-H |  | Brazil Clip |  <p> PART NUMBER<br/> REVISION No.<br/> CAVITY NUMBER<br/> VENDER CODE<br/> 19.15±0.15<br/> 18.00<sup>+0.20</sup><sub>-0.00</sub><br/> 35.30±0.15<br/> 25.50±0.2<br/> POLISHING<br/> SURFACE TREATMENT VDI-36<br/> SURFACE TREATMENT VDI-30 </p> |

| <p>RPC-AB01B-H</p> |    | <p>China Clip</p>  |    |
|--------------------|---|--------------------|--|
| <p>Model</p>       | <p>Photo</p>  | <p>Description</p> | <p>Outline Drawing - mm</p>  |
| <p>RPE-AB01B-H</p> |   | <p>Europe Clip</p> |   |
| <p>RPH-AB01B-H</p> |  | <p>Korea Clip</p>  |  |

| RPI-AB01B-H |    | India Clip     |    |
|-------------|---|----------------|--|
| Model       | Photo   | Description    | Outline Drawing - mm   |
| RPK-AB01B-H |   | UK Clip        |   |
| RPN-AB01B-H |  | Argentina Clip |  |

|                      |   |                       |   |
|----------------------|---|-----------------------|---|
| <p>RPS-AB01B-H</p>   |    | <p>Australia Clip</p> |   |
| <p>RPX-03-R</p>      |    | <p>C8 Clip</p>        |  |
| <p>RPBAG-AB01B-H</p> | <p>RPA-AB01B-H, RPE-AB01B-H, RPK-AB01B-H and RPS-AB01B-H interchangeable clips in a plastic bag.</p>  |                       |   |