

# Power Adapters

## AC power adapters



### Features and Benefits

- 100 to 240 VAC power input
- -40 to 75°C operating temperature range (-T models)

### Certifications



## Introduction

The power adapters in Moxa's Power Adapter Series provide a reliable power source for many Moxa products.

## Specifications

### Input Power Parameters

|               |                              |
|---------------|------------------------------|
| Voltage Range | 100 to 240 VAC (50 to 60 Hz) |
|---------------|------------------------------|

### Power Parameters

|                     |   |
|---------------------|---|
| Input Plug Type     | PWR-AU Models: Australia plug type<br>PWR-CN Models: China plug type<br>PWR-EU Models: Europe plug type<br>PWR-UK Models: United Kingdom plug type<br>PWR-USJP Models: United States/Japan plug type<br>PWR-KR Models: Korea plug type  |
| Output Power Rating | PWR-12050 Models: 0.5 A @ 12 VDC<br>PWR-12150 Models: 1.5 A @ 12 VDC<br>PWR-12200-DT-S1: 2 A @ 12 VDC<br>PWR-12300 Models: 3 A @ 12 VDC   |
| Output Plug Type    | PWR-12050-S1 Models: S-Type 5.5/2.1/7.5<br>PWR-12050-S2 Models: S-Type 5.5/2.1/9.5<br>PWR-12150-S2 Models: S-Type 5.5/2.1/9.5<br>PWR-12200-DT-S1: S-Type 5.5/2.1/7.5<br>PWR-12300 Models: S-Type 5.5/2.1/7.5<br>PWR-12150-SA-T Models: L-Type 5.5/2.1/7.5<br>Outer Diameter: 5.5 ± 0.1 mm (0.22 ± 0.004 in)<br>Inner Diameter: 2.1 ± 0.1 mm (0.08 ± 0.004 in) |

## Physical Characteristics

|  |  |
|--|--|
| <p><b>Dimensions</b></p>                   | <p>PWR-12050-AU-S1: 67.9 x 33.5 x 39.4 mm (2.67 x 1.32 x 1.55 in)<br/> PWR-12050-CN-S1: 67.8 x 33.0 x 39.0 mm (2.67 x 1.30 x 1.54 in)<br/> PWR-12050-EU-S1: 68.0 x 33.0 x 55.0 mm (2.68 x 1.30 x 2.17 in)<br/> PWR-12050-KR-S1: 67.7 x 33.0 x 55.1 mm (2.67 x 1.30 x 2.17 in)<br/> PWR-12050-UK-S1: 67.8 x 50.3 x 43.0 mm (2.67 x 1.98 x 1.69 in)<br/> PWR-12050-USJP-S1: 67.8 x 33.0 x 39.0 mm (2.67 x 1.30 x 1.54 in)<br/> PWR-12050-AU-S2: 67.9 x 39.4 x 42.5 mm (2.67 x 1.55 x 1.67 in)<br/> PWR-12050-CN-S2: 67.8 x 33.0 x 39.0 mm (2.67 x 1.30 x 1.54 in)<br/> PWR-12050-EU-S2: 68.0 x 33.0 x 55.0 mm (2.68 x 1.30 x 2.17 in)<br/> PWR-12050-KR-S2: 67.7 x 33.0 x 55.1 mm (2.67 x 1.30 x 2.17 in)<br/> PWR-12050-UK-S2: 67.9 x 50.3 x 43.0 mm (2.67 x 1.98 x 1.69 in)<br/> PWR-12050-USJP-S2: 67.8 x 33.0 x 39.0 mm (2.67 x 1.30 x 1.54 in)<br/> PWR-12150-WPAU-S2: 80.5 x 39.1 x 56.4 mm (3.17 x 1.54 x 2.22 in)<br/> PWR-12150-WPCN-S2: 80.5 x 39.1 x 56.4 mm (3.17 x 1.54 x 2.22 in)<br/> PWR-12150-WPEU-S2: 80.5 x 39.1 x 56.4 mm (3.17 x 1.54 x 2.22 in)<br/> PWR-12300-WPUK-S2: 80.5 x 39.1 x 56.4 mm (3.17 x 1.54 x 2.22 in)<br/> PWR-12150-WPUSJP-S2: 80.5 x 39.1 x 56.4 mm (3.17 x 1.54 x 2.22 in)<br/> PWR-12150-WPAU-S4: 80.5 x 39.1 x 56.4 mm (3.17 x 1.54 x 2.22 in)<br/> PWR-12150-WPCN-S4: 80.5 x 39.1 x 56.4 mm (3.17 x 1.54 x 2.22 in)<br/> PWR-12150-WPEU-S4: 80.5 x 39.1 x 56.4 mm (3.17 x 1.54 x 2.22 in)<br/> PWR-12150-WPKR-S4: 80.5 x 39.1 x 56.4 mm (3.17 x 1.54 x 2.22 in)<br/> PWR-12150-WPUK-S4: 80.5 x 39.1 x 56.4 mm (3.17 x 1.54 x 2.22 in)<br/> PWR-12150-WPUSJP-S4: 80.5 x 39.1 x 56.4 mm (3.17 x 1.54 x 2.22 in)<br/> PWR-12300-WPAU-S2: 93.0 x 50.0 x 39.6 mm (3.66 x 1.97 x 1.56 in)<br/> PWR-12300-WPCN-S2: 93.0 x 50.0 x 39.6 mm (3.66 x 1.97 x 1.56 in)<br/> PWR-12300-WPEU-S2: 93.0 x 50.0 x 39.6 mm (3.66 x 1.97 x 1.56 in)<br/> PWR-12300-WPUK-S2: 93.0 x 50.0 x 39.6 mm (3.66 x 1.97 x 1.56 in)<br/> PWR-12300-WPUSJP-S2: 93.0 x 50.0 x 39.6 mm (3.66 x 1.97 x 1.56 in)<br/> PWR-12150-AU-SA-T: 41 x 73.9 x 89.5 mm (1.61 x 2.91 x 3.52 in)<br/> PWR-12150-CN-SA-T: 32 x 60 x 88 mm (1.26 x 2.36 x 3.46 in)<br/> PWR-12150-EU-SA-T: 32 x 85.3 x 88 mm (1.26 x 3.36 x 3.46 in)<br/> PWR-12150-UK-SA-T: 50 x 91 x 82.5 mm (1.97 x 3.58 x 3.25 in)<br/> PWR-12150-USJP-SA-T: 32 x 70.3 x 88 mm (1.26 x 2.77 x 3.46 in)<br/> PWR-12200-DT-S1: 110.8 x 51.8 x 32 mm (4.36 x 2.04 x 1.26 in)</p> |
| <p><b>Weight</b></p>                       | <p>PWR-12050 Models: 71~87 g ( 0.16 ~ 0.19 lb )<br/> PWR-12150 Models: 200 g ( 0.44 lb )<br/> PWR-12150-S2 Models: 115 g ( 0.25 lb )<br/> PWR-12300-S1 Models: 163 g ( 0.36 lb )<br/> PWR-DT Models: 200 g ( 0.44 lb )</p>   |
| <p><b>Cord Length</b></p>                  | <p>PWR-12050 Models: 1500±100 mm (59.06±3.94 in)<br/> PWR-12150 Models: 1500±100 mm (59.06±3.94 in)<br/> PWR-12300 Models: 1500±100 mm (59.06±3.94 in)<br/> PWR-12200-DT-S1: 1800±200 mm (70.87±7.87 in)</p>   |
| <p><b>Environmental Limits</b></p>         |  |
| <p><b>Operating Temperature</b></p>        | <p>Standard Models: 0 to 40°C (32 to 104°F)<br/> Wide Temp. Models: -40 to 75°C (-40 to 167°F)</p>   |
| <p><b>Storage Temperature</b></p>          | <p>Standard Models: -20 to 70°C (-4 to 158°F)<br/> Wide Temp. Models: -40 to 75°C (-40 to 167°F)</p>   |
| <p><b>Standards and Certifications</b></p> |  |
| <p><b>Safety</b></p>                       | <p>PWR-12050-AU Models: RCM<br/> PWR-12050-CN Models: CCC<br/> PWR-12050-EU Models: CE/GS<br/> PWR-12050-KR Models: KCC<br/> PWR-12050-UK Models: CE<br/> PWR-12050-USJP Models: FCC/UL/PSE<br/> PWR-12150 Models: CE/FCC/UL/RCM/PSE/CCC/GS/KCC<br/> PWR-12300 Models: CE/FCC/UL/RCM/PSE/CCC/GS<br/> PWR-12200-DT-S1: Efficiency Level 5: CE/FCC/UL/RCM/PSE/CCC; Efficiency Level 6: CE/FCC/UL/PSE<br/> PWR-12150-AU-SA-T: RCM<br/> PWR-12150-CN-SA-T: CCC<br/> PWR-12150-EU-SA-T: TUV/CE/GS<br/> PWR-12150-UK-SA-T: CE<br/> PWR-12150-USJP-SA-T: FCC/UL/PSE</p>   |

## Warranty

|                 |  |
|-----------------|--|
| Warranty Period | 1.5 years  |
| Details         | See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a> |

## Ordering Information

| Model Name          | Barrel-plug Type | Input-plug Type | Output Rating  | Operating Temperature |
|---------------------|------------------|-----------------|----------------|-----------------------|
| PWR-12050-AU-S1     | Locking          | AU              | 0.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12050-CN-S1     | Locking          | CN              | 0.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12050-EU-S1     | Locking          | EU              | 0.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12050-KR-S1     | Locking          | KR              | 0.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12050-UK-S1     | Locking          | UK              | 0.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12050-USJP-S1   | Locking          | US/JP           | 0.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12050-AU-S2     | Non-locking      | AU              | 0.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12050-CN-S2     | Non-locking      | CN              | 0.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12050-EU-S2     | Non-locking      | EU              | 0.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12050-KR-S2     | Non-locking      | KR              | 0.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12050-UK-S2     | Non-locking      | UK              | 0.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12050-USJP-S2   | Non-locking      | US/JP           | 0.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12150-WPAU-S2   | Non-locking      | AU              | 1.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12150-WPCN-S2   | Non-locking      | CN              | 1.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12150-WPEU-S2   | Non-locking      | EU              | 1.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12150-WPUK-S2   | Non-locking      | UK              | 1.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12150-WPUSJP-S2 | Non-locking      | US/JP           | 1.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12150-WPAU-S4   | Locking          | AU              | 1.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12150-WPCN-S4   | Locking          | CN              | 1.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12150-WPEU-S4   | Locking          | EU              | 1.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12150-WPKR-S4   | Locking          | KR              | 1.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12150-WPUK-S4   | Locking          | UK              | 1.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12150-WPUSJP-S4 | Locking          | US/JP           | 1.5 A @ 12 VDC | 0 to 40°C             |
| PWR-12300-WPAU-S2   | Locking          | AU              | 3 A @ 12 VDC   | 0 to 40°C             |
| PWR-12300-WPCN-S2   | Locking          | CN              | 3 A @ 12 VDC   | 0 to 40°C             |
| PWR-12300-WPEU-S2   | Locking          | EU              | 3 A @ 12 VDC   | 0 to 40°C             |
| PWR-12300-WPUK-S2   | Locking          | UK              | 3 A @ 12 VDC   | 0 to 40°C             |
| PWR-12300-WPUSJP-S2 | Locking          | US/JP           | 3 A @ 12 VDC   | 0 to 40°C             |
| PWR-12150-AU-SA-T   | Locking          | AU              | 1.5 A @ 12 VDC | -40 to 75°C           |
| PWR-12150-CN-SA-T   | Locking          | CN              | 1.5 A @ 12 VDC | -40 to 75°C           |
| PWR-12150-EU-SA-T   | Locking          | EU              | 1.5 A @ 12 VDC | -40 to 75°C           |
| PWR-12150-UK-SA-T   | Locking          | UK              | 1.5 A @ 12 VDC | -40 to 75°C           |
| PWR-12150-USJP-SA-T | Locking          | US/JP           | 1.5 A @ 12 VDC | -40 to 75°C           |
| PWR-12200-DT-S1     | Locking          | Desktop         | 2 A @ 12 VDC   | 0 to 40°C             |

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