

## SERIES: YHY-DS65 | DESCRIPTION: AC-DC POWER ADAPTER



### FEATURES

- Level VI efficiency
- 65W power
- Universal input (100~240 Vac)
- Single regulated outputs
- Over voltage and short circuit protections
- Custom designs available
- Certified to 62368-1 standards

### APPLICATIONS

- Industrial Control
- Audio Equipment
- Office Equipment
- Energy Storage
- Massage Devices
- Sports Equipment
- Supermarket Applications

| Part Number                          | Model        | Output Voltage<br>(Vdc) | Output Current<br>(Amp) | Output Power<br>(Watt) | Ripple & Noise<br>(mVp-p) | Efficiency Level |
|--------------------------------------|--------------|-------------------------|-------------------------|------------------------|---------------------------|------------------|
| DSXXXXYYAA-BB-NN<br>(Notes As below) | YHY-09006000 | 9                       | 6                       | 54                     | 100                       | VI               |
|                                      | YHY-12005420 | 12                      | 5.42                    | 65                     | 120                       | VI               |
|                                      | YHY-15004300 | 15                      | 4.3                     | 65                     | 150                       | VI               |
|                                      | YHY-18003600 | 18                      | 3.6                     | 65                     | 200                       | VI               |

|              |    |      |    |     |    |
|--------------|----|------|----|-----|----|
| YHY-20003250 | 20 | 3.25 | 65 | 200 | VI |
| YHY-24002700 | 24 | 2.7  | 65 | 240 | VI |
| YHY-30002160 | 30 | 2.16 | 65 | 300 | VI |
| YHY-36001800 | 36 | 1.8  | 65 | 300 | VI |
| YHY-48001350 | 48 | 1.35 | 65 | 300 | VI |
| YHY-56001160 | 56 | 1.16 | 65 | 300 | VI |

Notes: 1. At full load, nominal input 100-240Vac, 20 MHz bandwidth oscilloscope, each output terminated with 0.1  $\mu$ F multilayer ceramic and 10  $\mu$ F low ESR electrolytic capacitors.

## PART NUMBER

### DSXXXYYYAA-BB-NN

XXX:

Output Voltage

9Vdc=090

YYY:

Power

60W=060

AA:

Input Inlet C6/C8/C14/ST/T

IEC320C8=C8

BB:

DC Connector

Barrel=N/A

4Pin=4P

NN:

A/E/H/S/D/XW...

## INPUT

| Paramater                 | Description                  | Min. | Typ | Max. | Units |
|---------------------------|------------------------------|------|-----|------|-------|
| Input Voltage             |                              | 90   |     | 264  | Vac   |
| Rated Voltage             |                              | 100  |     | 240  | Vac   |
| Input Frequency           |                              | 47   |     | 63   | Hz    |
| Rated Frequency           |                              | 50   |     | 60   | Hz    |
| Current                   |                              |      |     | 1.5  | A     |
| Inrush Current            | 110Vac 60Hz, Full load, 25°C |      |     | 40   | A     |
|                           | 220Vac 50Hz, Full load, 25°C |      |     | 80   | A     |
| Leakage Current           | 110Vac / 220Vac              |      |     | 0.05 | mA    |
| No Load Power Consumption | 110Vac / 220Vac              |      |     | 0.21 | W     |
| Fuse                      |                              | 3.5  |     |      | A     |

## OUTPUT

| Paramater  | Description | Min. | Typ | Max. | Units |
|------------|-------------|------|-----|------|-------|
| Regulation |             | ±5   |     |      | %     |

## PROTECTION

| Paramater                | Description                     | Min. | Typ | Max. | Units |
|--------------------------|---------------------------------|------|-----|------|-------|
| Over Voltage Protection  | Output Shut Down                |      |     |      | %     |
| Over Current Protection  | Output Shut Down, Auto Recovery |      |     |      | %     |
| Short Circuit Protection | Output Shut Down, Auto Recovery |      |     |      | %     |

## SAFETY & COMPLIANCE

| Paramater            | Description                                                                                                             | Min.   | Typ  | Max. | Units |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|--------|------|------|-------|
| Isolation Voltage    | Power Supply of Class I, primary to secondary (AC input grounding connection with the DC output negative terminal ) ,3s |        | 1500 |      | Vac   |
|                      | Power Supply of Class II, primary to secondary, 3s                                                                      |        | 3000 |      | Vac   |
| Isolation Resistance | 500Vdc between Primary Live, Primary Neutral and secondary.                                                             | 10     |      |      | MΩ    |
| EMI/EMC              | FCC Part 15B Class B, CE                                                                                                |        |      |      |       |
| MTBF                 | 25℃                                                                                                                     | 50,000 |      |      | Hrs   |
| RoHs                 | YES                                                                                                                     |        |      |      |       |

## ENVIRONMENT

| Paramater             | Description                  | Min. | Typ | Max. | Units |
|-----------------------|------------------------------|------|-----|------|-------|
| Operating temperature | Full load, Normal operation  | 0    |     | 40   | ℃     |
| Storage temperature   | With package                 | -40  |     | 85   | ℃     |
| Operating humidity    | Full load , Normal operating | 5    |     | 95   | %     |
| Storage humidity      | Non-condensing               | 10   |     | 90   | %     |

## MECHANICAL

| Paramater | Description   | Min. | Typ | Max. | Units |
|-----------|---------------|------|-----|------|-------|
| Dimension | 115 x 50 x 30 |      |     |      | mm    |

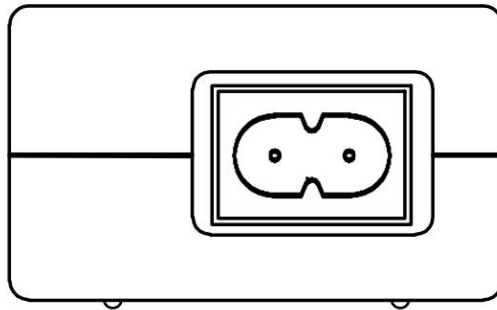
|        |                       |   |
|--------|-----------------------|---|
| Weight | Without AC Power Cord | g |
|--------|-----------------------|---|

**MECHANICAL DRAWING**

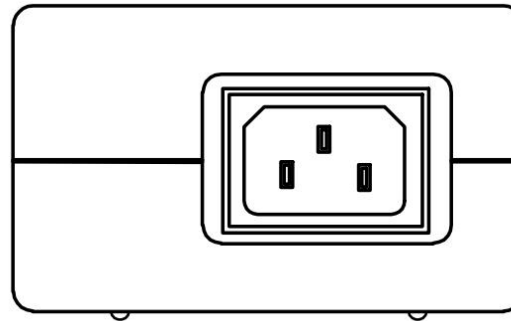
Unit: mm

Tolerance:  $\pm 0.2$

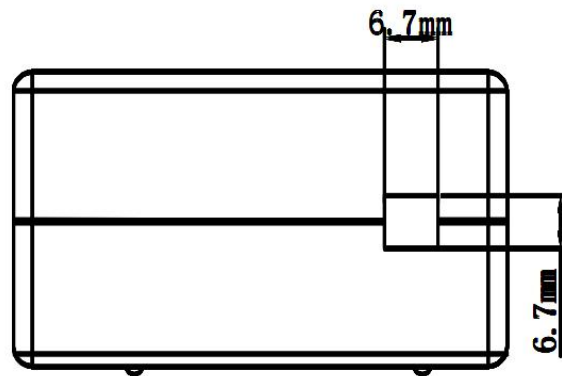
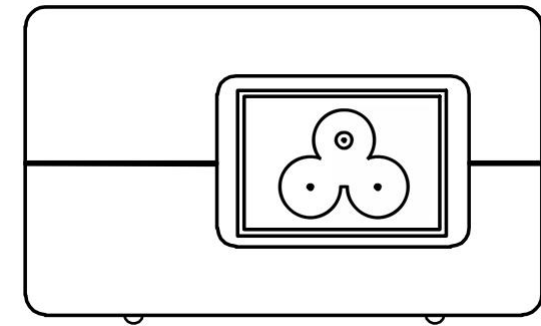
**IEC320-C8**

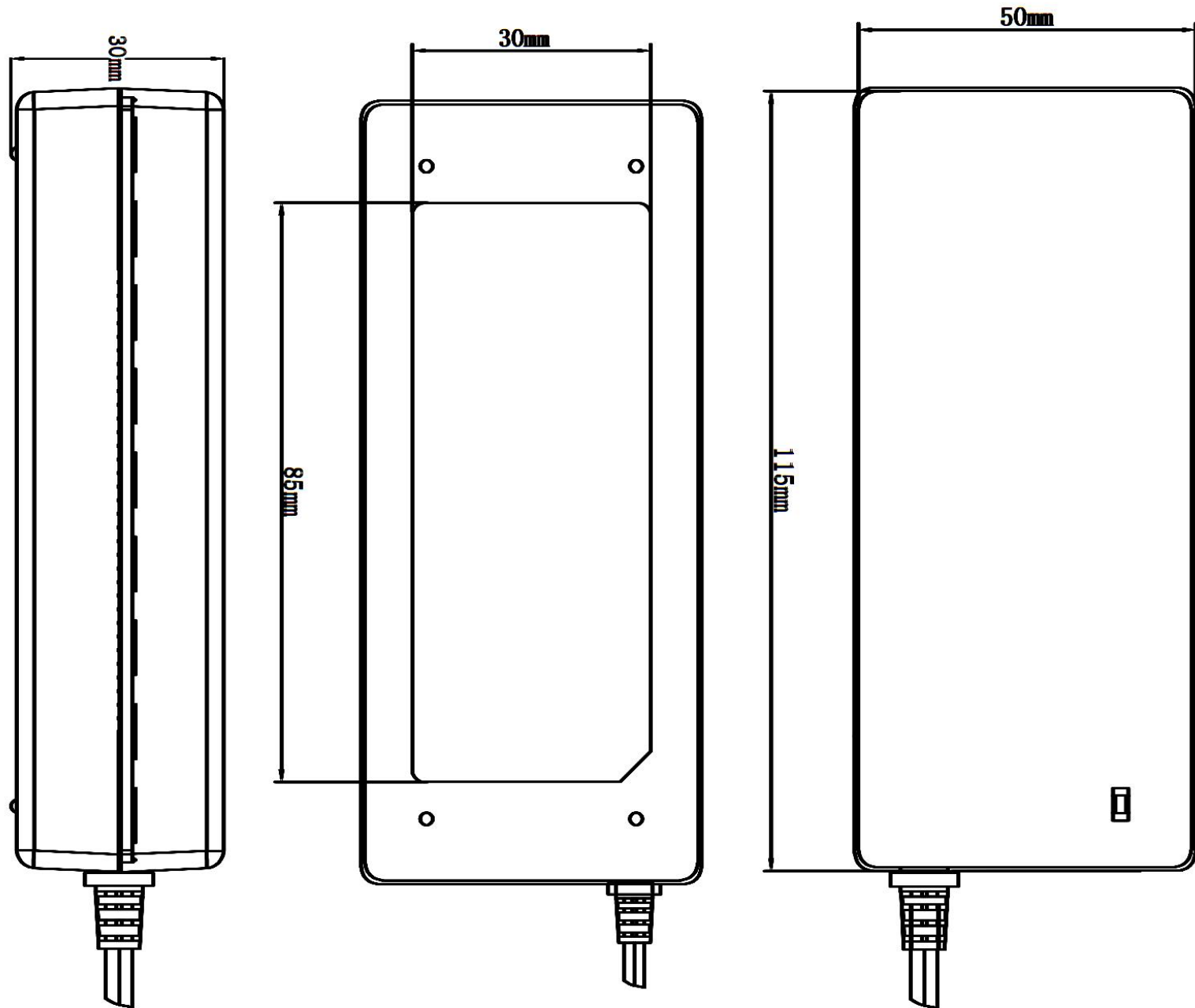


**IEC320-C14**



**IEC320-C6**





## DC CABLE

Unit: mm

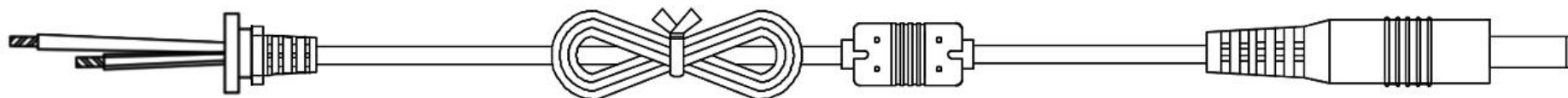


Table 1

| Cable         | Length    |
|---------------|-----------|
| UL2464, 20AWG | 1200mm±30 |
| UL2468, 20AWG | 1200mm±30 |
| UL1185, 20AWG | 1200mm±30 |

## DC CONNECTOR

Plug Polarity  
P= Center Positive



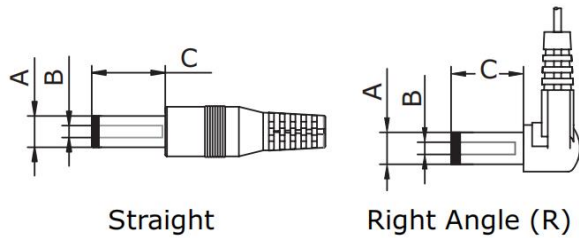
N= Center Negative



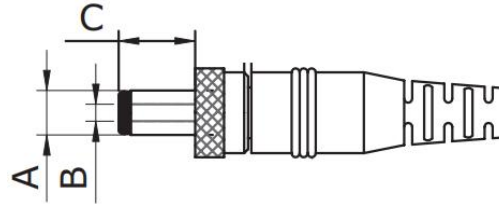
| Plug Polarity |             | Type    | Dimensions (mm) |      |     | Plug Angle |       |
|---------------|-------------|---------|-----------------|------|-----|------------|-------|
| Center Pos.   | Center Neg. |         | A               | B    | C   | Straight   | Right |
| ■             | ■           | Barrel  | 5.5             | 2.1  | 10  | ■          | ■     |
| ■             | ■           |         | 5.5             | 2.5  | 10  | ■          | ■     |
| ■             | ■           |         | 6.5             | 3.0  | 10  | ■          | N/A   |
| ■             | ■           |         | 4.75            | 1.7  | 10  | ■          | N/A   |
| ■             | ■           |         | 4.0             | 1.7  | 10  | ■          | ■     |
| ■             | ■           |         | 3.5             | 1.35 | 10  | ■          | ■     |
| ■             | ■           |         | 3.5             | 1.0  | 10  | ■          | ■     |
| ■             | ■           | Locking | 5.5             | 2.1  | 9.5 | ■          | N/A   |
| ■             | ■           |         | 5.5             | 2.5  | 9.5 | ■          | N/A   |
| N/A           | N/A         | Audio   | 3.5             |      | 14  | ■          | N/A   |

|     |     |                    |                   |     |     |
|-----|-----|--------------------|-------------------|-----|-----|
| N/A | N/A | Din                | 3Pin 4Pin         | ■   | N/A |
| N/A | N/A | XLR                | 2P 3P 4P 5P       | ■   | N/A |
| N/A | N/A | Aviation Connector | GX12: 2P 3P 4P 5P | ■   | N/A |
| N/A | N/A | USB                | USB Type C        | ■   | N/A |
| N/A | N/A | Cigarette Lighter  | Male              | ■   | N/A |
| N/A | N/A |                    | Female            | ■   | N/A |
| N/A | N/A | Stipped & Tinned   |                   | N/A | N/A |

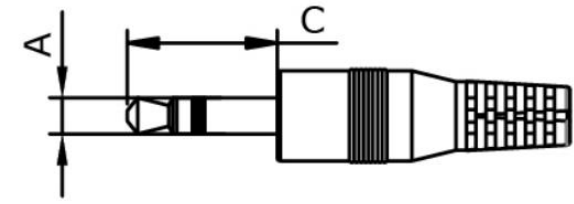
Barrel



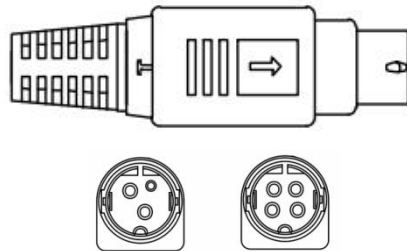
Locking



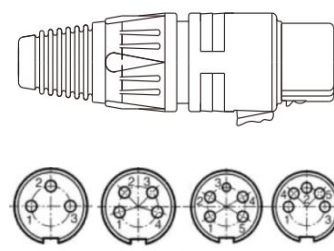
Audio



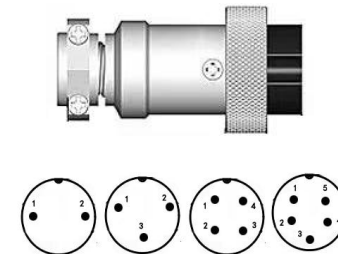
Din



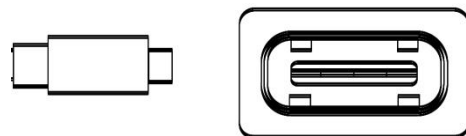
XLR



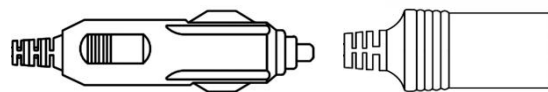
Aviation Connector



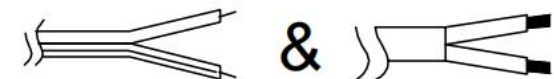
USB Type C



Cigarette Lighter



Stripped & Tinned



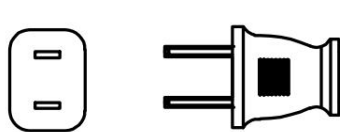
## AC POWER CORD



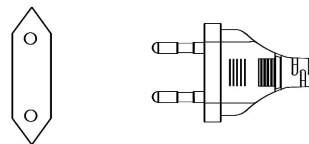
Table 2

| AC Power Cord | North America | Europe | United Kingdom | Australia | South Korea | Japan | China | South Africa | Argentina |
|---------------|---------------|--------|----------------|-----------|-------------|-------|-------|--------------|-----------|
| Length        | 1200mm ± 30   |        |                |           |             |       |       |              |           |
| Cable Type    | 2Cx18AWG      |        |                |           |             |       |       |              |           |
| Connector     | IEC320-C7     |        |                |           |             |       |       |              |           |

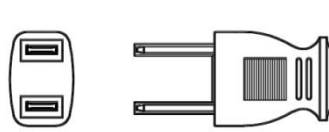
NORTH AMERICA



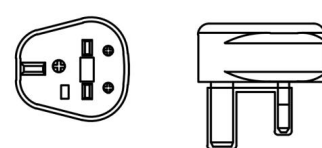
EUROPE



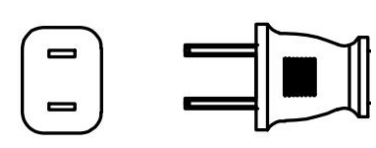
JAPAN



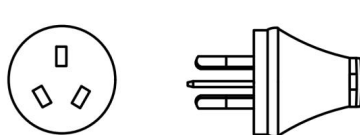
UNITED KINGDOM



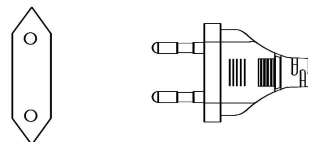
CHINA



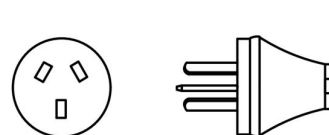
AUSTRALIA



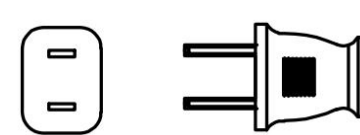
SOUTH KOREA



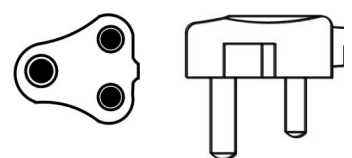
ARGENTINA



CHINA



SOUTH AFRICA





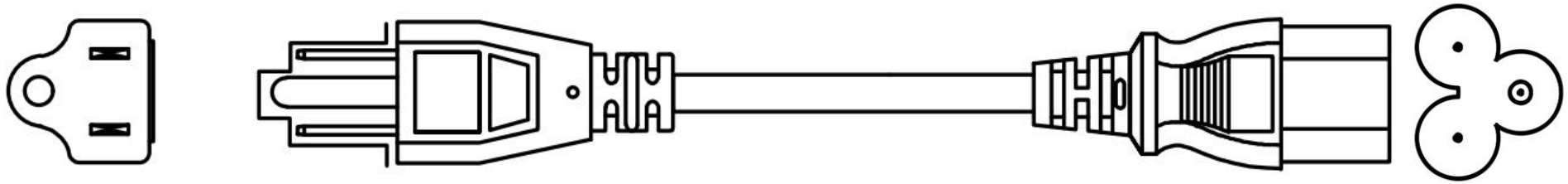


Table 3

| AC Power Cord | North America | Europe | United Kingdom | Australia | South Korea | Japan | China | South Africa | Argentina | Italy | Switzerland | Brazil |
|---------------|---------------|--------|----------------|-----------|-------------|-------|-------|--------------|-----------|-------|-------------|--------|
| Length        | 1200mm ± 30   |        |                |           |             |       |       |              |           |       |             |        |
| Cable Type    | 3Cx18AWG      |        |                |           |             |       |       |              |           |       |             |        |
| Connector     | IEC320-C5     |        |                |           |             |       |       |              |           |       |             |        |

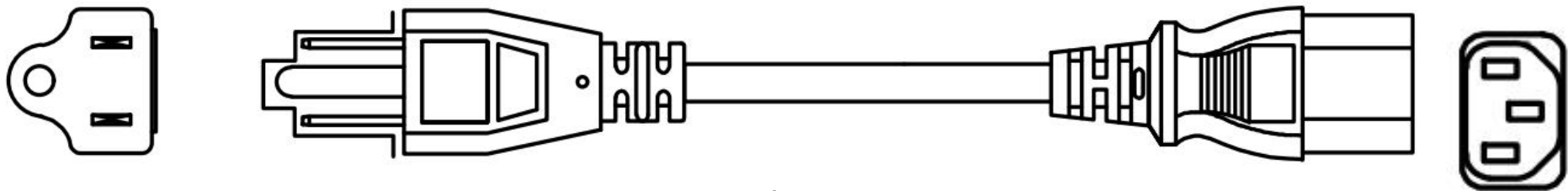
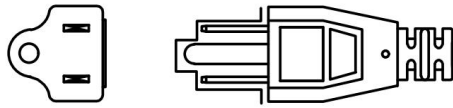


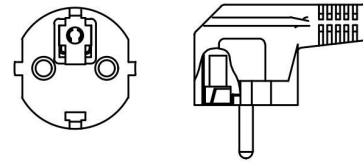
Table 4

| AC Power Cord | North America | Europe | United Kingdom | Australia | South Korea | Japan | China | South Africa | Argentina | Italy | Switzerland | Brazil |
|---------------|---------------|--------|----------------|-----------|-------------|-------|-------|--------------|-----------|-------|-------------|--------|
| Length        | 1200mm ± 30   |        |                |           |             |       |       |              |           |       |             |        |
| Cable Type    | 3Cx18AWG      |        |                |           |             |       |       |              |           |       |             |        |
| Connector     | IEC320-C13    |        |                |           |             |       |       |              |           |       |             |        |

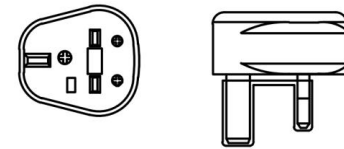
**NORTH AMERICA**



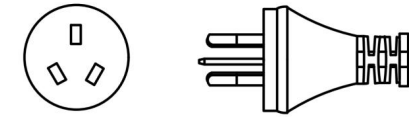
**EUROPE**



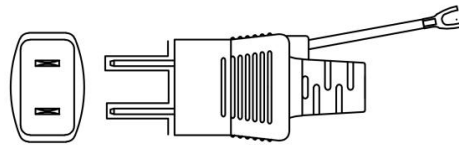
**UNITED KINGDOM**



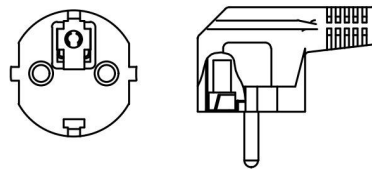
**AUSTRALIA**



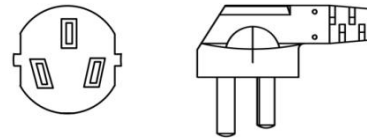
**JAPAN**



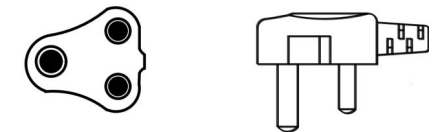
**SOUTH KOREA**



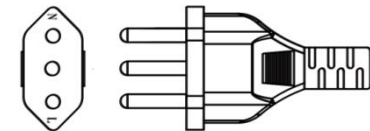
**CHINA**



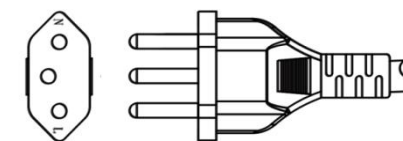
**SOUTH AFRICA**



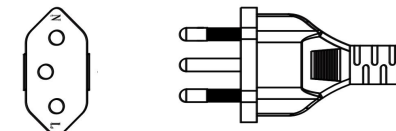
**ITALY**



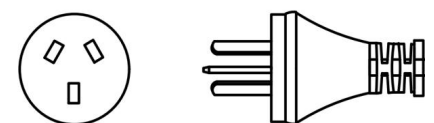
**SWITZERLAND**



**BRAZIL**



**ARGENTINA**



REVISION HISTORY

| REV. | Description     | Date     |
|------|-----------------|----------|
| 1.0  | Initial release | 2025-7-4 |
|      |                 |          |
|      |                 |          |
|      |                 |          |



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