

## 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 (Vdc)	Output Current (Amp)	Output Power (Watt)	Ripple & Noise (mVp-p)	Efficiency Level
DSXXXXYYAA-BB-NN (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 µF multilayer ceramic and 10 µF low ESR electrolytic capacitors.

### PART NUMBER

#### DSXXXXYYAA-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...
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### INPUT

Parameter	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°C	50,000			Hrs
RoHs	YES				

**ENVIRONMENT**

Paramater	Description	Min.	Typ	Max.	Units
Operating temperature	Full load, Normal operation	0		40	°C

Storage temperature	With package	-40	85	°C
Operating humidity	Full load , Normal operating	5	95	%
Storage humidity	Non-condensing	10	90	%

**MECHANICAL**

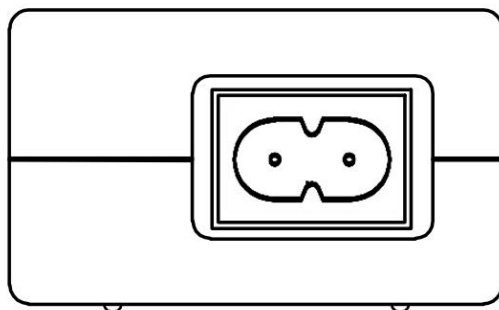
Parameter	Description	Min.	Typ	Max.	Units
Dimension	115 x 50 x 30				mm
Weight	Without AC Power Cord				g

**MECHANICAL DRAWING**

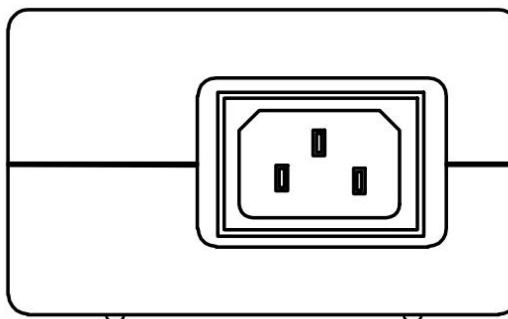
Unit: mm

Tolerance: ±0.2

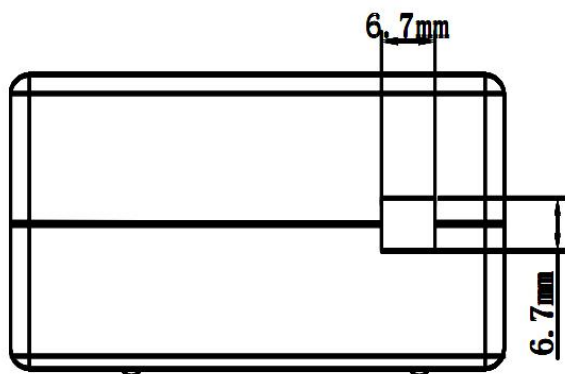
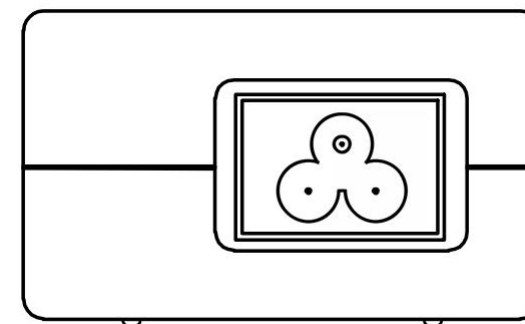
**IEC320-C8**

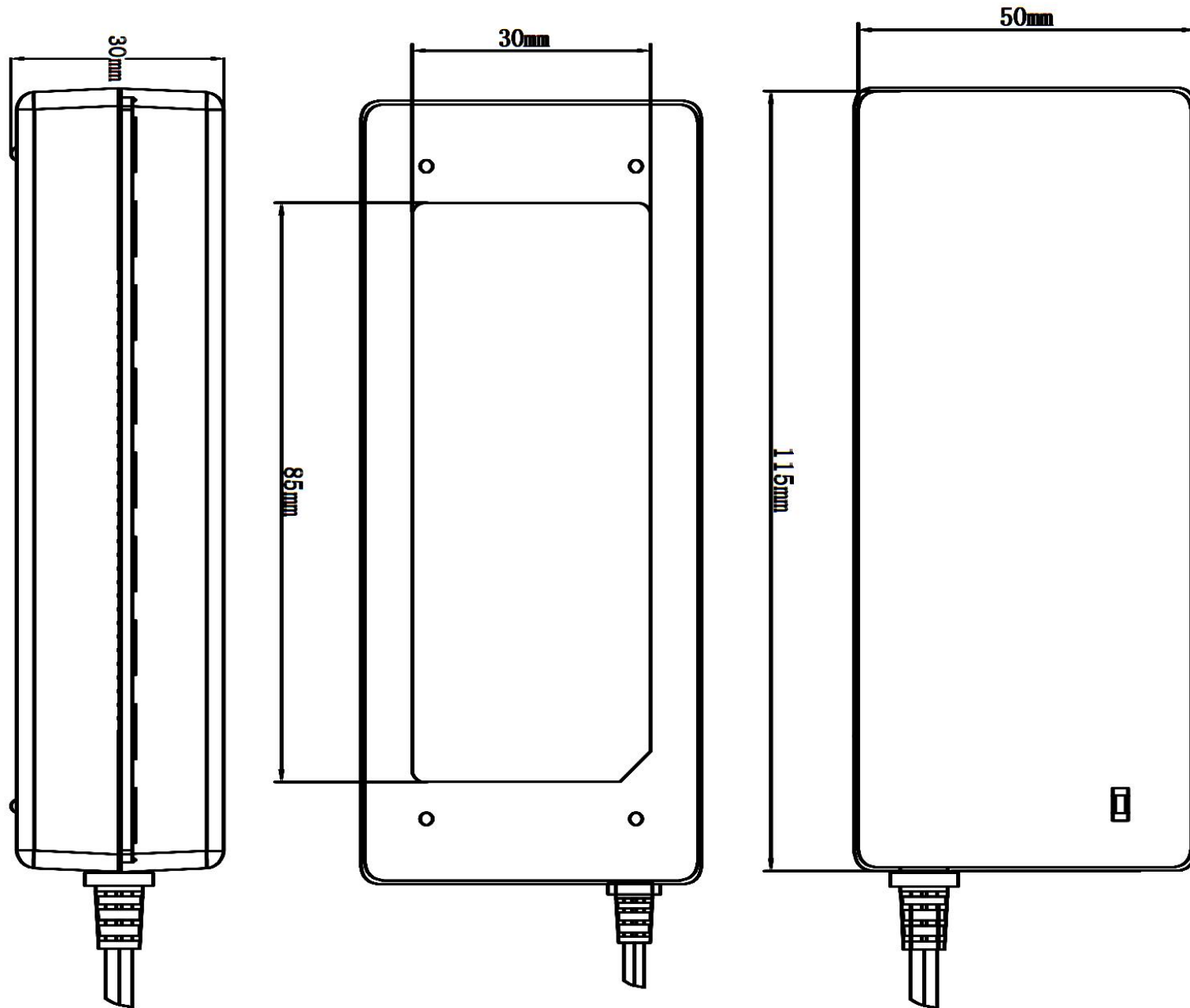


**IEC320-C14**



**IEC320-C6**





DC CABLE

Unit: mm

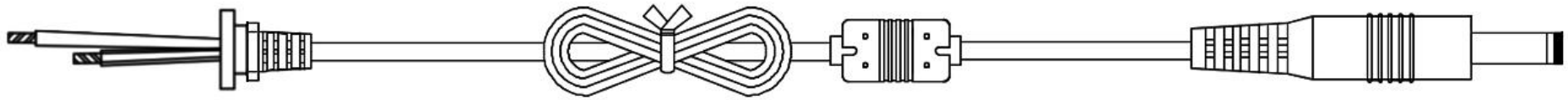


Table 1

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

DC CONNECTOR

Plug Polarity

P= Center Positive



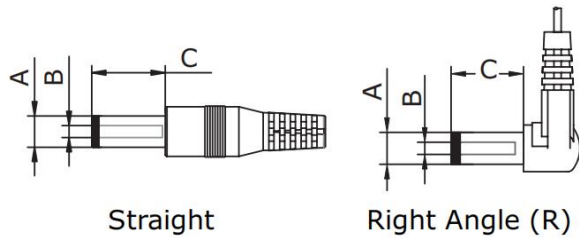
N= Center Negative



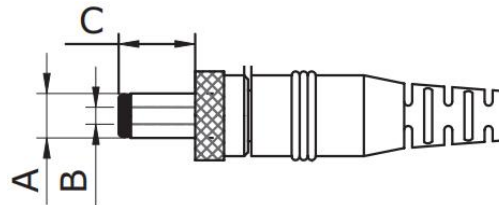
Plug Polarity		Type	Dimensions (mm)			Plug Angle	
Center Pos.	Center Neg.		A	B	C	Straight	Right
■	■	Barrel	5.5	2.1	10	■	■
■	■		5.5	2.5	10	■	■
■	■		6.5	3.0	10	■	N/A
■	■		4.75	1.7	10	■	N/A
■	■		4.0	1.7	10	■	■
■	■		3.5	1.35	10	■	■
■	■		3.5	1.0	10	■	■
■	■		Locking	5.5	2.1	9.5	■
■	■	5.5		2.5	9.5	■	N/A
N/A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

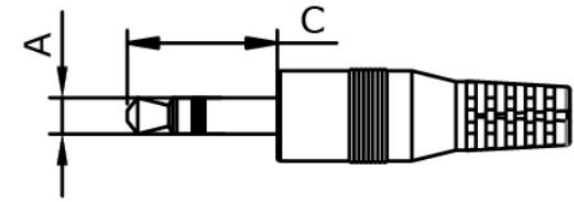
**Barrel**



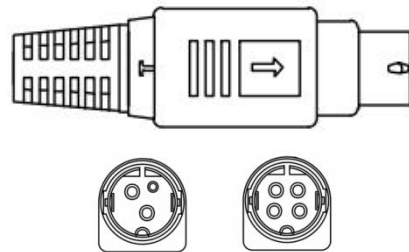
**Locking**



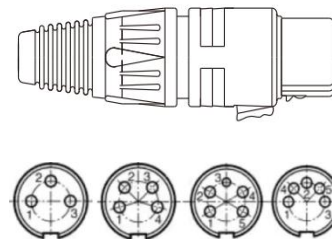
**Audio**



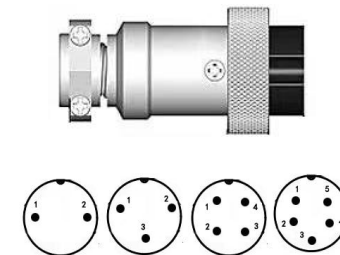
**Din**



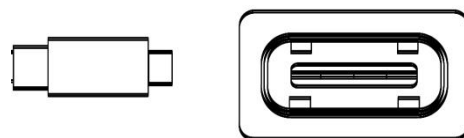
**XLR**



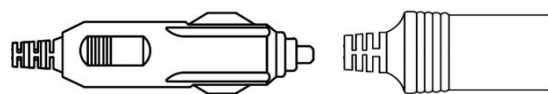
**Aviation Connector**



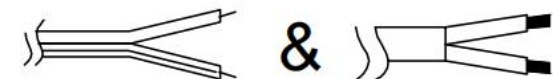
**USB Type C**



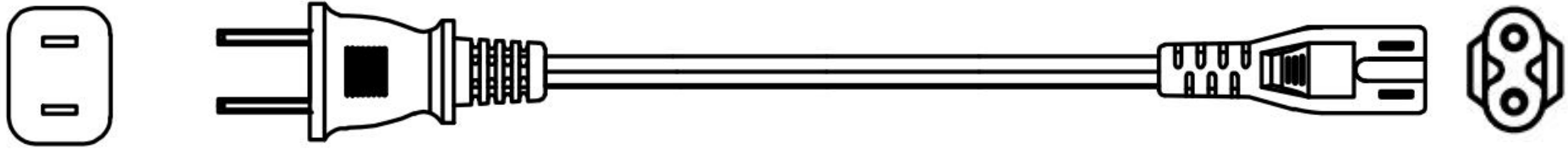
**Cigarette Lighter**



**Stripped & Tinned**



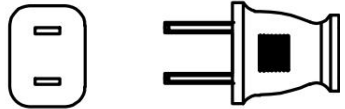
**AC POWER CORD**



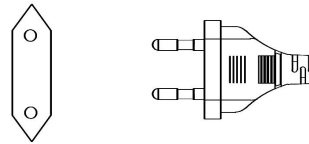
**Table 2**

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								

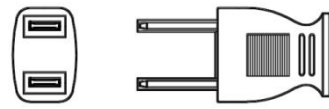
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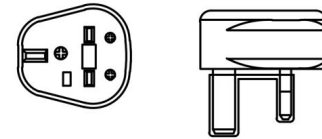
**EUROPE**



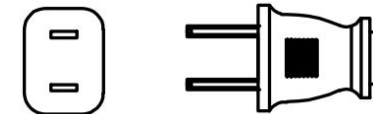
**JAPAN**



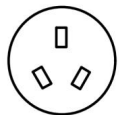
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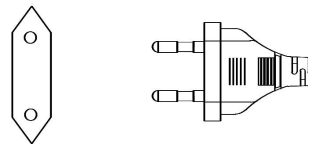
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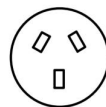
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**SOUTH KOREA**



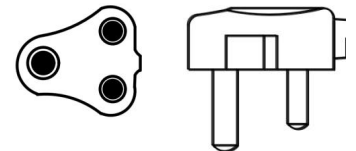
**ARGENTINA**



**CHINA**



**SOUTH AFRICA**



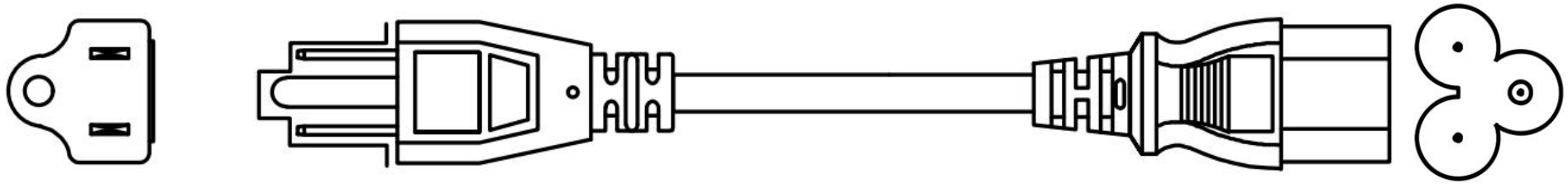


Table 3

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											

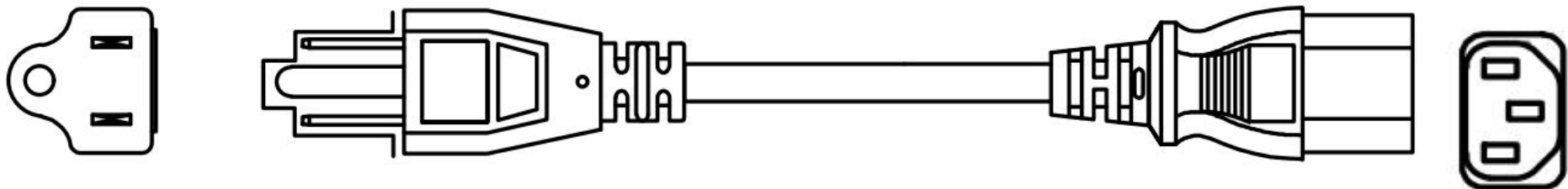
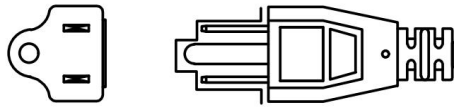


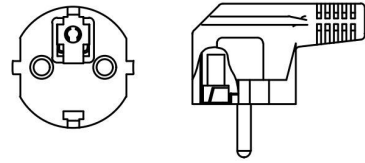
Table 4

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											

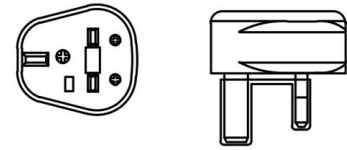
NORTH AMERICA



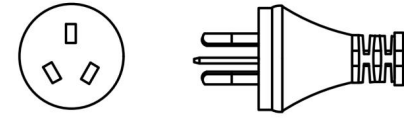
EUROPE



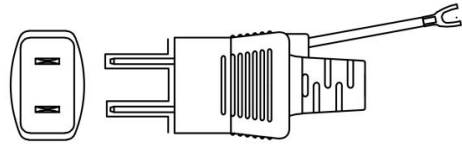
UNITED KINGDOM



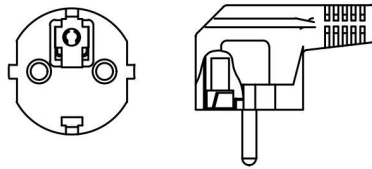
AUSTRALIA



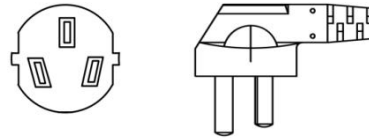
JAPAN



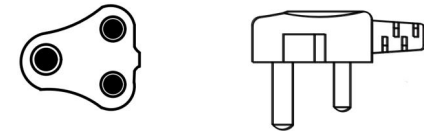
SOUTH KOREA



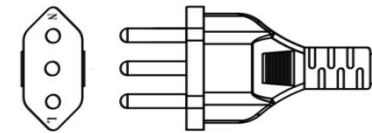
CHINA



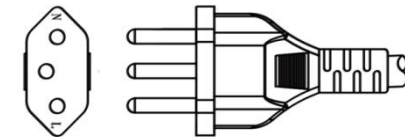
SOUTH AFRICA



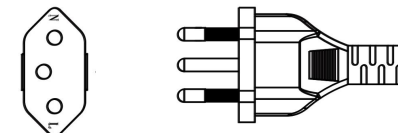
ITALY



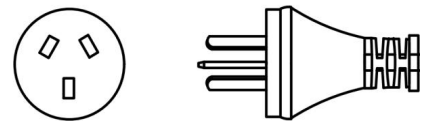
SWITZERLAND



BRAZIL



ARGENTINA



**REVISION HISTORY**

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



**YinghuiYuan Electronics (YHYadapter)**

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