

SERIES: YHY-DS60 | DESCRIPTION: AC-DC POWER ADAPTER



FEATURES

- Level VI efficiency
- 60W 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
- IT Equipment
- Audio Equipment
- Office Equipment
- Energy Storage
- Massage Devices
- Sports Equipment
- Supermarket Applications

Part #	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-12005000	12	5	60	120	VI
	YHY-15004000	15	4	60	150	VI
	YHY-18003330	18	3.33	60	200	VI
	YHY-20003000	20	3	60	200	VI
	YHY-24002500	24	2.5	60	240	VI
	YHY-30002000	30	2	60	300	VI
	YHY-36001670	36	1.67	60	300	VI
	YHY-48001250	48	1.25	60	300	VI
	YHY-56001070	56	1.07	60	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:	YYY:	AA:	BB:	NN:
Output Voltage	Power	Input Inlet C6/C8/C14/ST/T	DC Connector	A/E/H/S/D/XW...
9Vdc=090	60W=060	IEC320C8=C8	Barrel=N/A 4Pin=4P	

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

Parameter	Description	Min.	Typ	Max.	Units
Regulation		±5			%

PROTECTION

Parameter	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

Parameter	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

Parameter	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

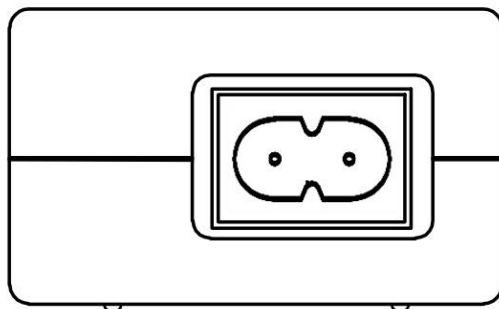
Paramater	Description	Min.	Typ	Max.	Units
Dimension	115 x 50 x 30				mm

MECHANICAL DRAWING

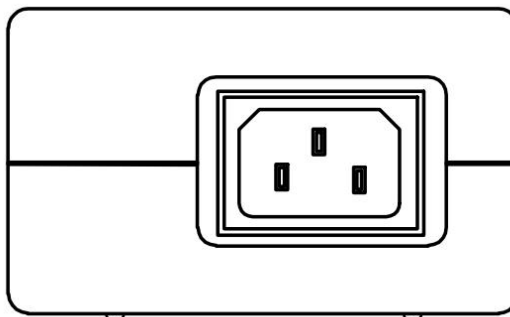
Unit: mm

Tolerance: ±0.2

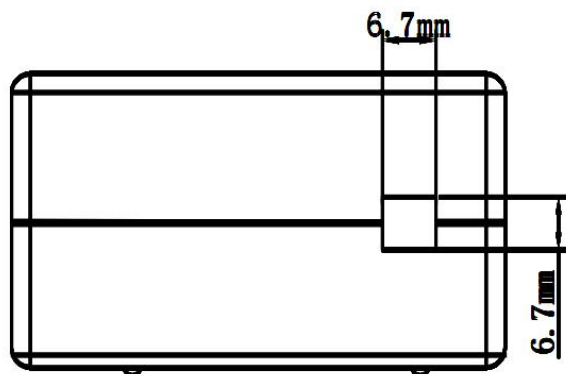
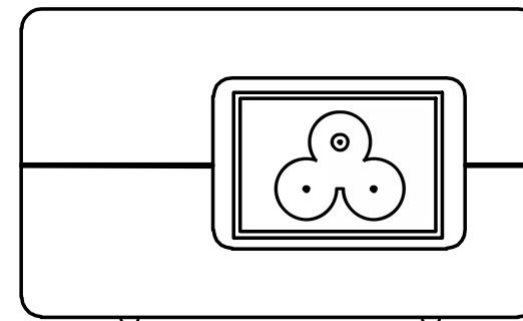
IEC320-C8

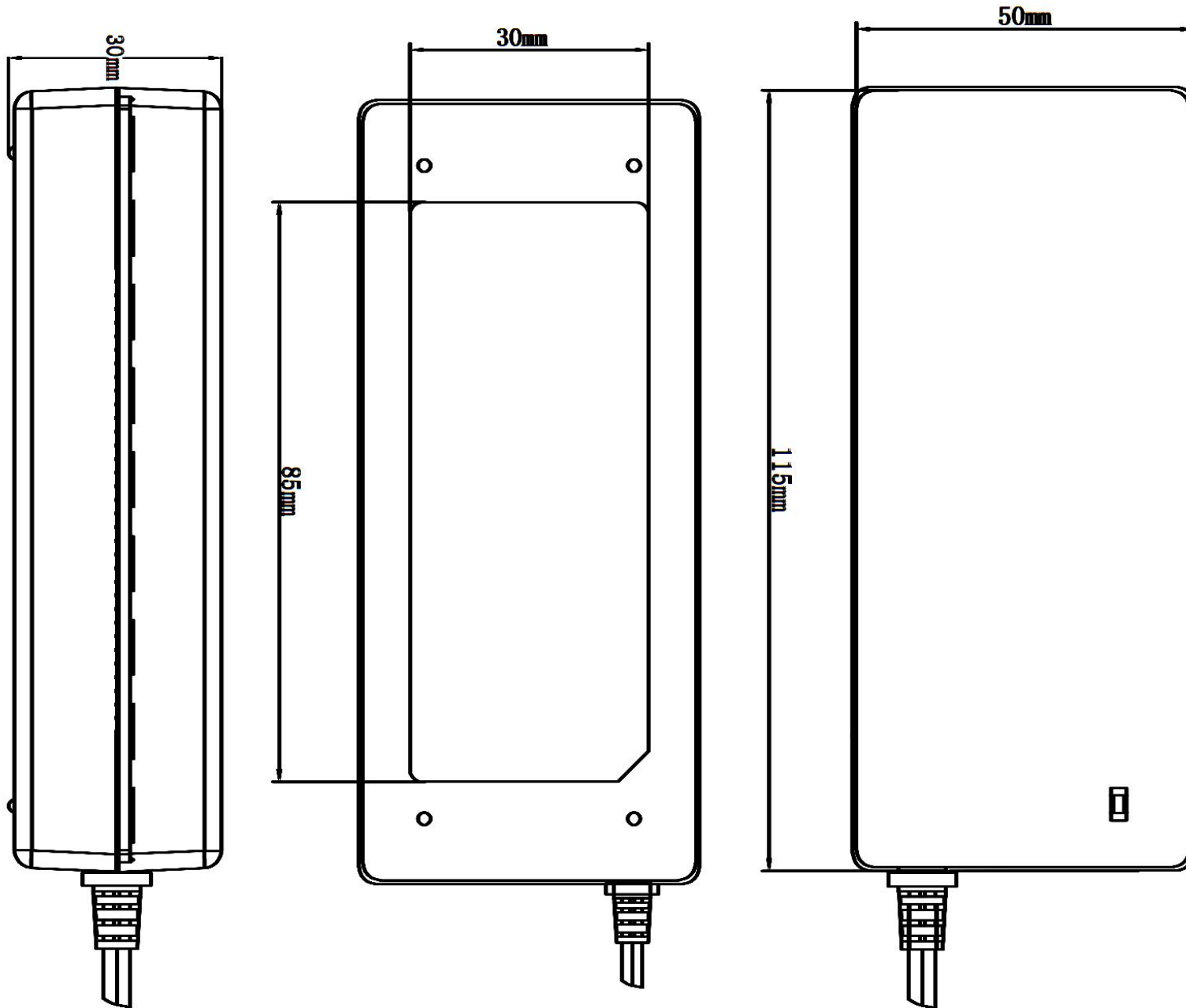


IEC320-C14



IEC320-C6





DC CABLE

Unit: mm

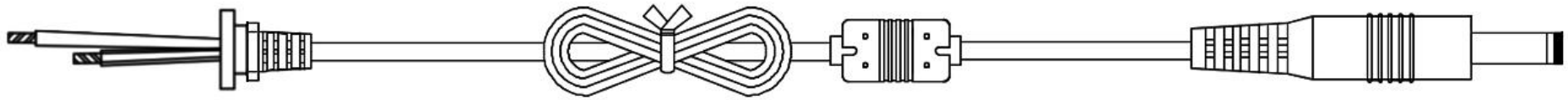


Table 1

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

DC CONNECTOR

Plug Polarity

P= Center Positive



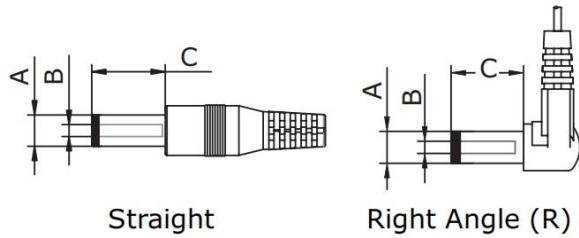
N= Center Negative



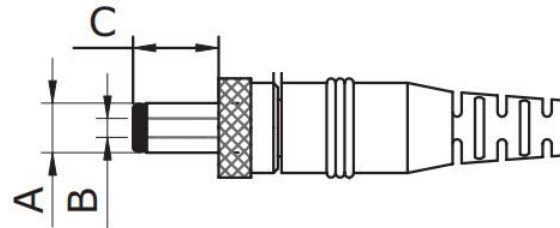
Plug Polarity		Type	Dimensions (mm)			Plug Angle	
Center Pos.	Center Neg.		A	B	C	Straight	Right
■	■	Barrel	5.5	2.1	10	■	■
■	■		5.5	2.5	10	■	■
■	■		6.5	3.0	10	■	N/A
■	■		4.75	1.7	10	■	N/A
■	■		4.0	1.7	10	■	■
■	■		3.5	1.35	10	■	■
■	■		3.5	1.0	10	■	■
■	■		Locking	5.5	2.1	9.5	■
■	■	5.5		2.5	9.5	■	N/A
N/A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

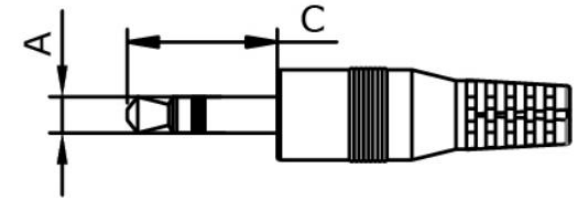
Barrel



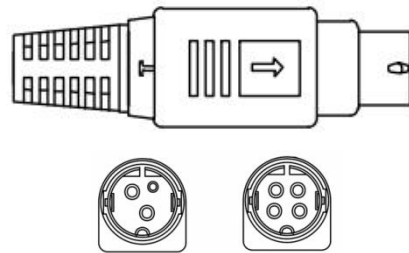
Locking



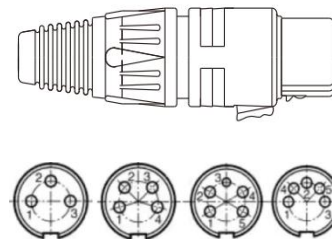
Audio



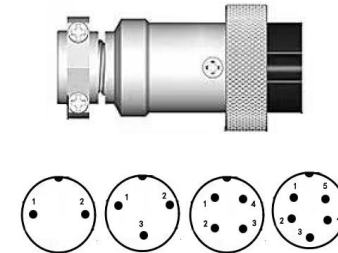
Din



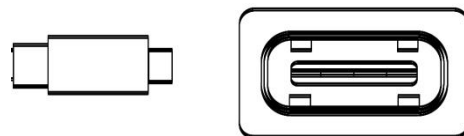
XLR



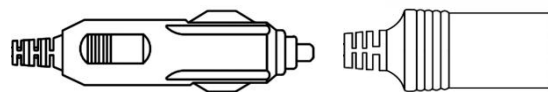
Aviation Connector



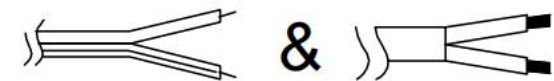
USB Type C



Cigarette Lighter



Stripped & Tinned



AC POWER CORD

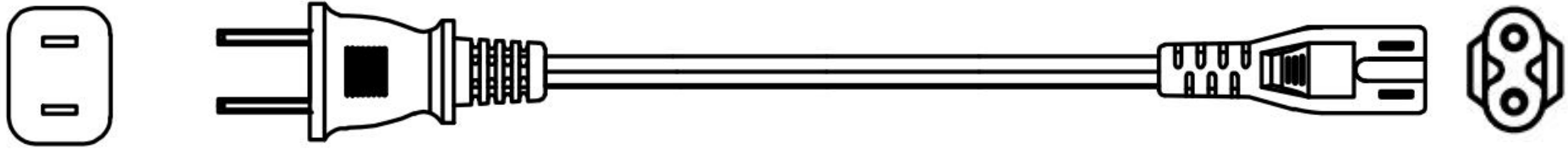
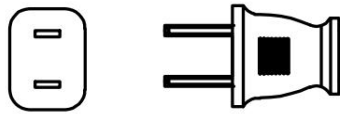


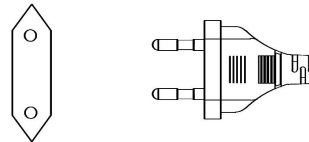
Table 2

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								

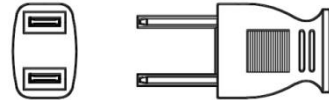
NORTH AMERICA



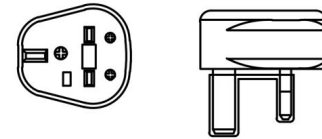
EUROPE



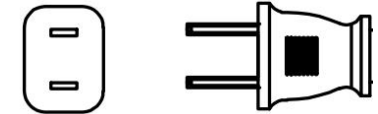
JAPAN



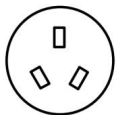
UNITED KINGDOM



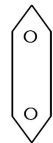
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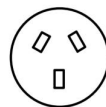
AUSTRALIA



SOUTH KOREA



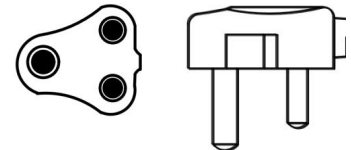
ARGENTINA



CHINA



SOUTH AFRICA



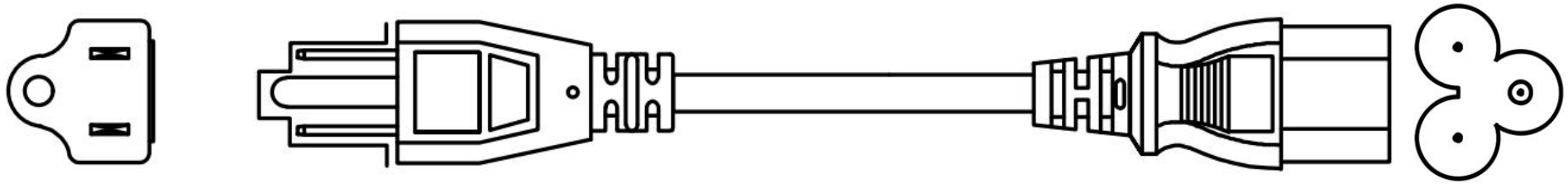


Table 3

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											

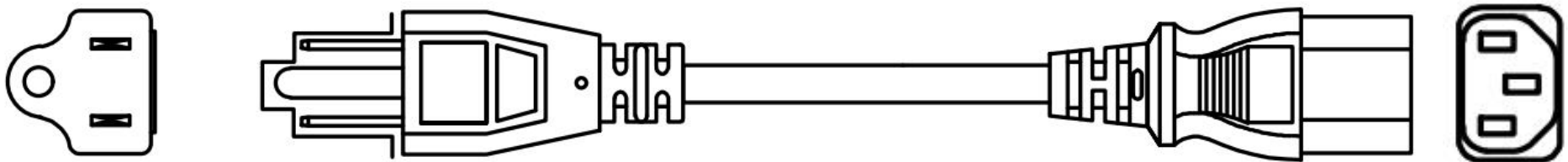
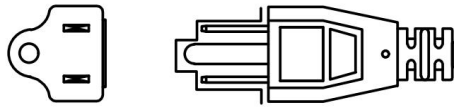


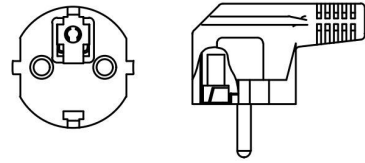
Table 4

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											

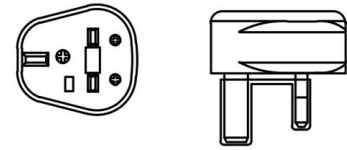
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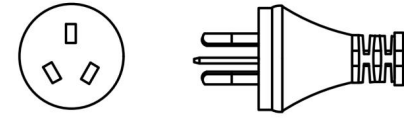
EUROPE



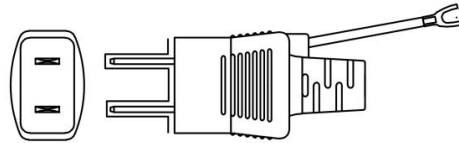
UNITED KINGDOM



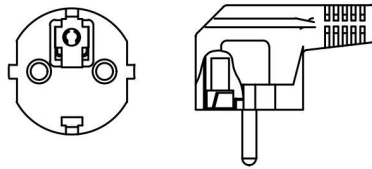
AUSTRALIA



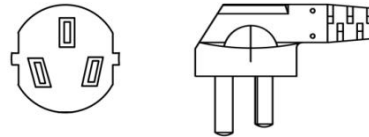
JAPAN



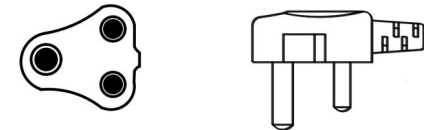
SOUTH KOREA



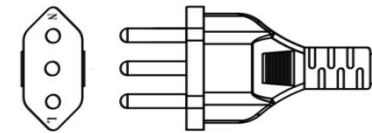
CHINA



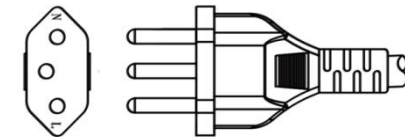
SOUTH AFRICA



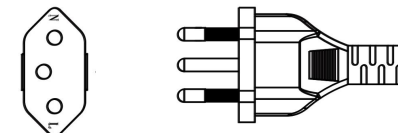
ITALY



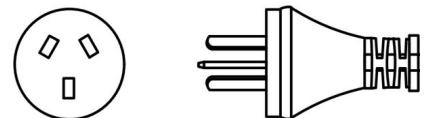
SWITZERLAND



BRAZIL



ARGENTINA



REVISION HISTORY

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



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