

SERIES: YHY-DS100 | DESCRIPTION: AC-DC POWER ADAPTER



FEATURES

- Level VI efficiency
- 100W 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 NO	Model	Output Voltage (Vdc)	Output Current (Amp)	Output Power (Watt)	Ripple & Noise (mVp-p)	Efficiency Level
DSXXXXYYAA-BB-NN (Notes As below)	YHY-09008000	9	8	80	100	VI
	YHY-12008300	12	8.3	100	120	VI
	YHY-15006600	15	6.6	100	150	VI
	YHY-18005500	18	5.5	100	200	VI
	YHY-20005000	20	5	100	200	VI
	YHY-24004200	24	4.2	100	240	VI
	YHY-30003300	30	3.3	100	300	VI
	YHY-36002700	36	2.7	100	300	VI
	YHY-48002080	48	2.08	100	300	VI

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

PART NUMBER

DSXXXYYYAA-BB-NN

XXX:

Output Voltage

12Vdc=120

YYY:

Power

100W=100

AA:

Input Inlet C6/C8/C14/ST/T

IEC320C14=C14

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				2.0	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		5			A

OUTPUT

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

PROTECTION

Paramater	Description	Min.	Typ	Max.	Units
Over Voltage Protation	Output Shut Down	10			%
Over Current Protation	Output Shut Down, Auto Recovery				%
Short Circuit Protation	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

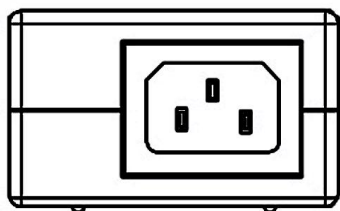
Paramater	Description	Min.	Typ	Max.	Units
Operating temperature	Full load, Normal operation	0		40	°C
Storage temperature	With package	-40		85	°C
Operating humidity	Full load , Normal operating	5		95	%
Storage humidity	Non-condensing	10		90	%

MECHANICAL DRAWING

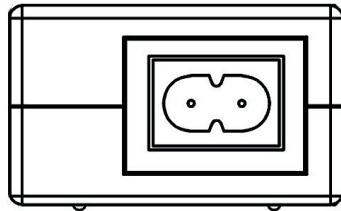
Unit: mm

Tolerance: ± 0.2

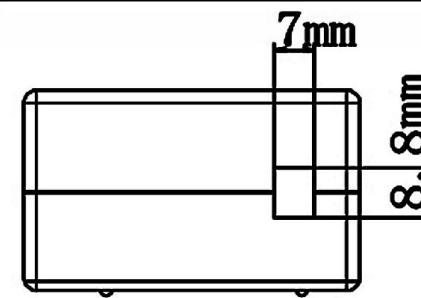
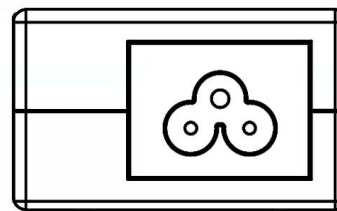
IEC320-C14

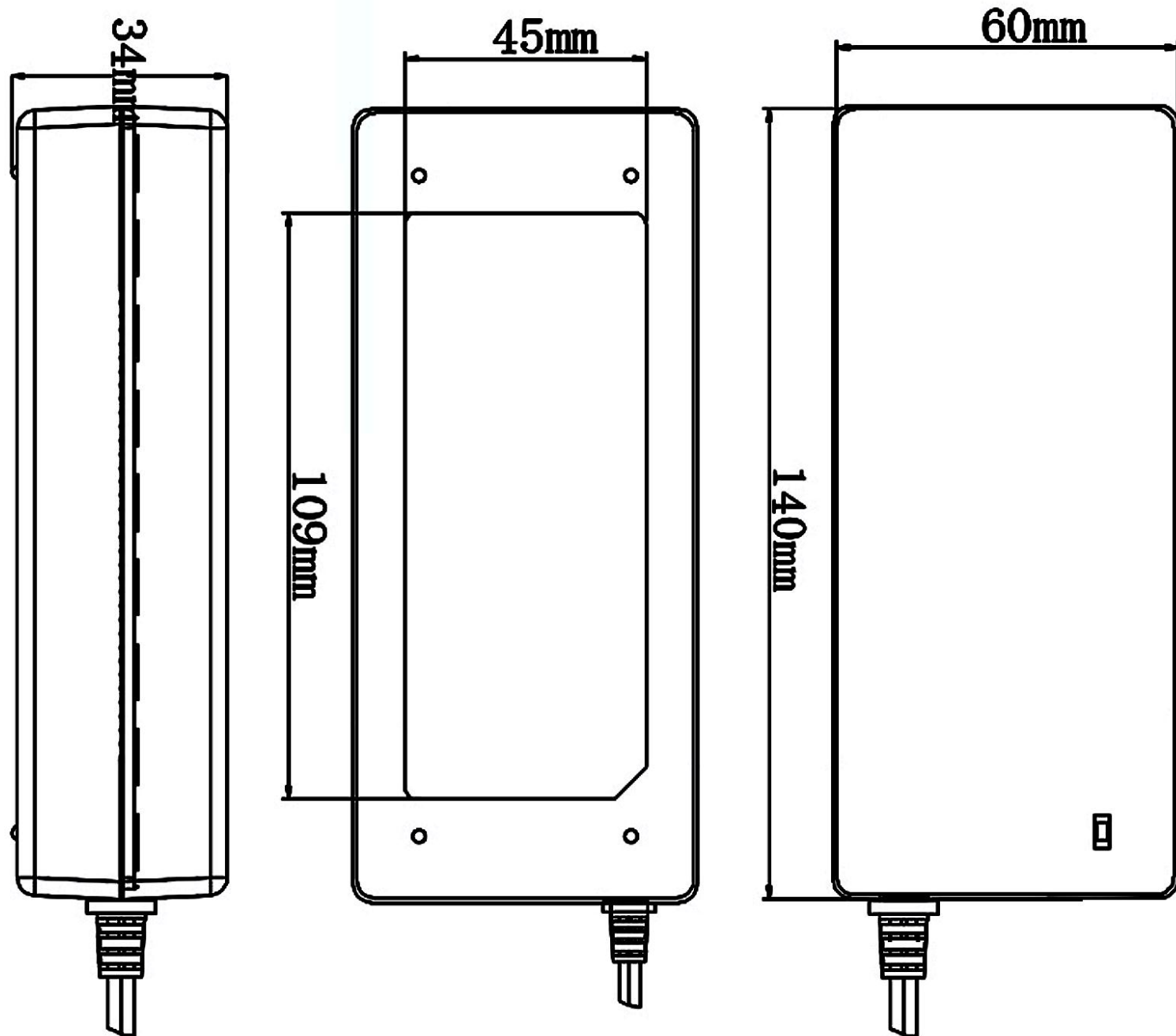


IEC320-C8



IEC320-C6





DC CABLE

Unit: mm

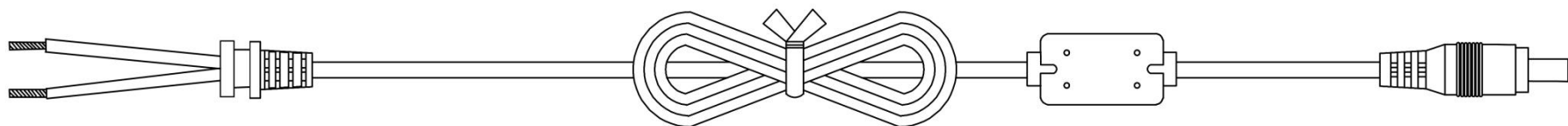


Table 1

Cable	Length
UL2464, 18AWG	1200mm $\pm$ 30
UL2468, 18AWG	1200mm $\pm$ 30
UL1185, 18AWG	1200mm $\pm$ 30

DC CONNECTOR

Plug Polarity
P= Center Positive



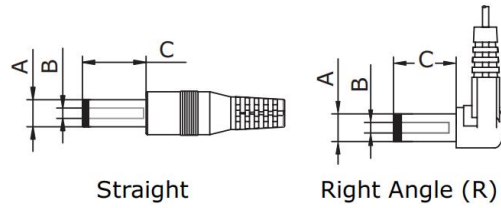
N= Center Negative



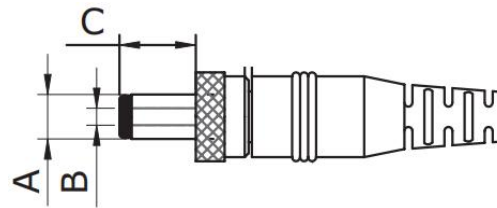
Plug Polarity		Type	Dimensions (mm)			Plug Angle	
Center Pos.	Center Neg.		A	B	C	Straight	Right
■	■	Barrel	5.5	2.1	10	■	■
■	■		5.5	2.5	10	■	■
■	■		6.5	3.0	10	■	N/A
■	■	Locking	5.5	2.1	9.5	■	N/A
■	■		5.5	2.5	9.5	■	N/A
N/A	N/A	Audio	3.5		14	■	N/A
N/A	N/A	Din		3Pin 4Pin		■	N/A
N/A	N/A	XLR		2P 3P 4P 5P		■	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	Stripped & Tinned		N/A	N/A

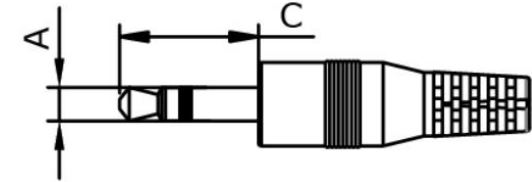
Barrel



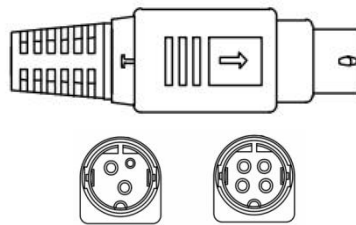
Locking



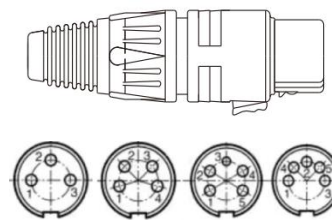
Audio



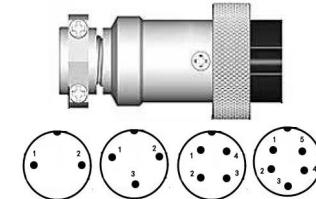
Din



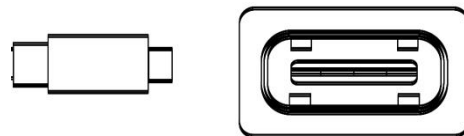
XLR



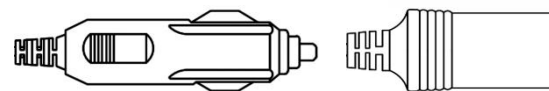
Aviation Connector



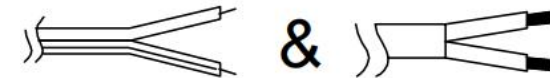
USB Type C



Cigarette Lighter



Stripped & Tinned



AC Power Cord

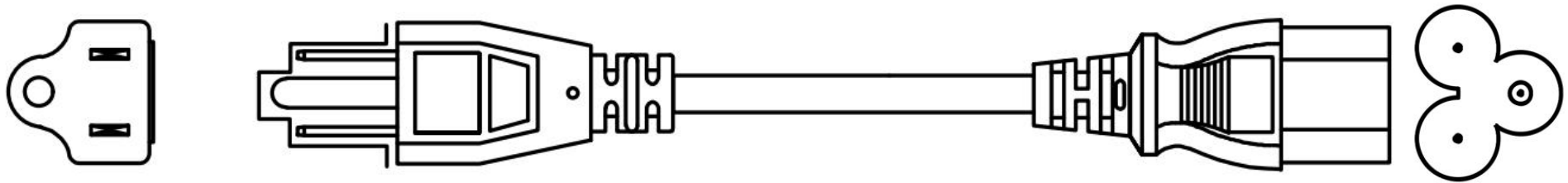


Table 3

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											

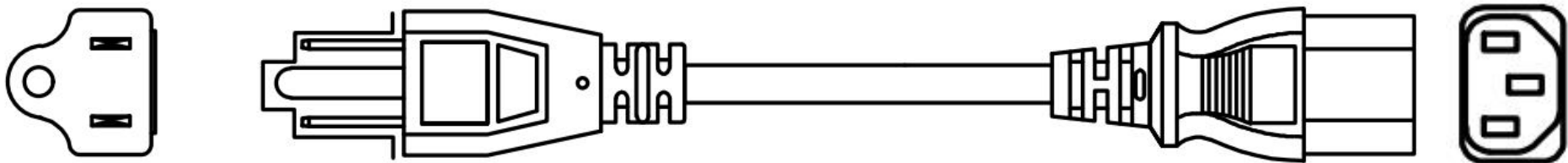
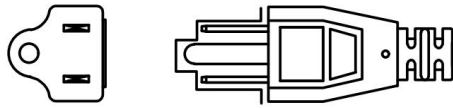


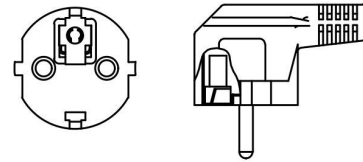
Table 4

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											

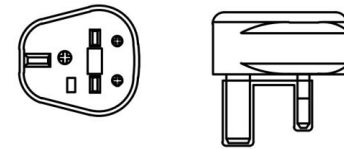
NORTH AMERICA



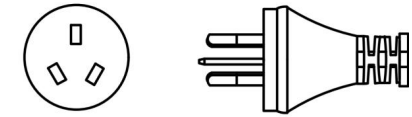
EUROPE



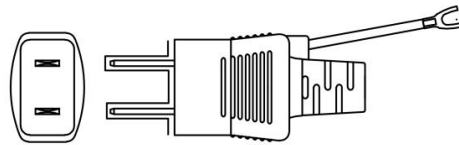
UNITED KINGDOM



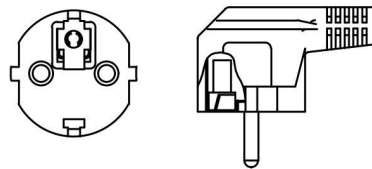
AUSTRALIA



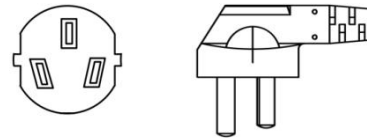
JAPAN



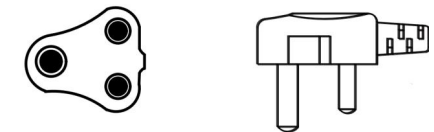
SOUTH KOREA



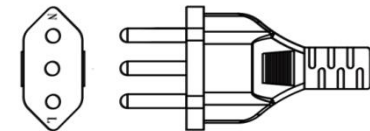
CHINA



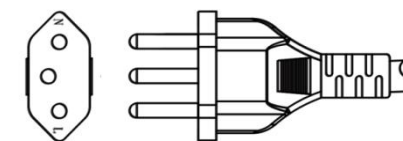
SOUTH AFRICA



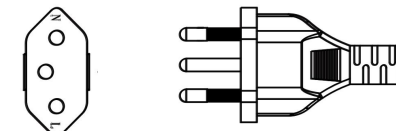
ITALY



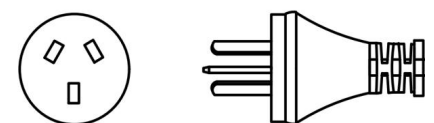
SWITZERLAND



BRAZIL



ARGENTINA



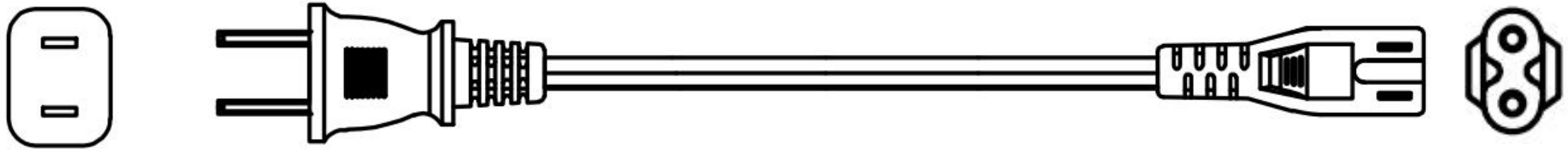
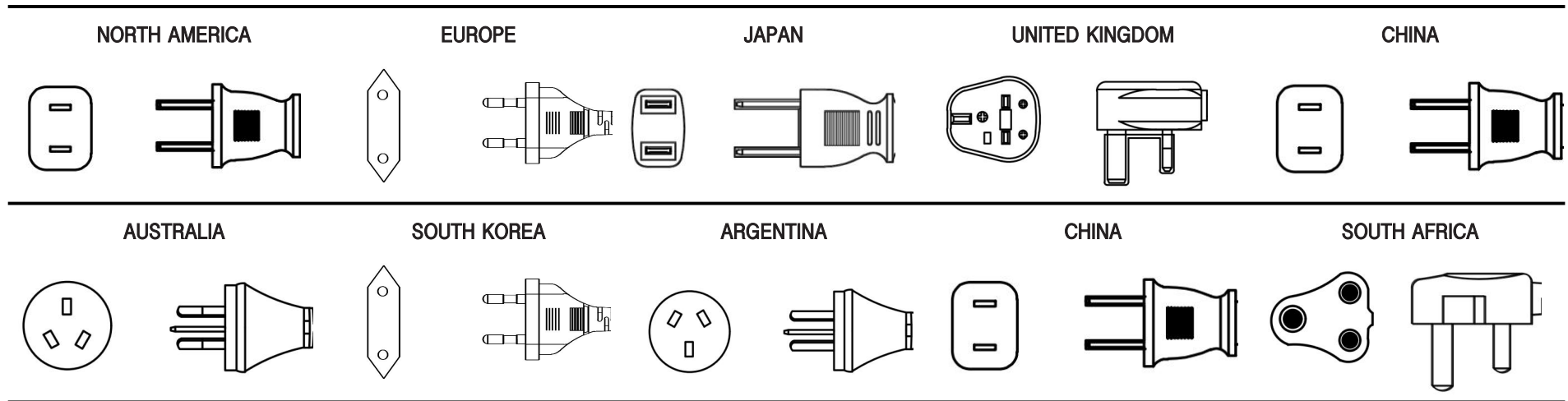


Table 2

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								



REVISION HISTORY

REV.	Description	Date
1.0	Initial release	2025-6-24



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