

SERIES: YHY-DS240 | DESCRIPTION: AC-DC POWER ADAPTER



FEATURES

- Level VI efficiency
- 240W power
- Universal input (100~240 Vac)
- Single regulated outputs
- Over voltage and short circuit protections
- Power Factor connection
- 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 Number	Model	Output Voltage (Vdc)	Output Current (Amp)	Output Power (Watt)	Ripple & Noise (mVp-p)	Efficiency Level
DSXXXXYYAA-BB-NN (Notes As below)	YHY-12020000	12	20	240	120	VI
	YHY-15016000	15	16	240	150	VI
	YHY-18013330	18	13.33	240	200	VI
	YHY-20012000	20	12	240	200	VI
	YHY-24001000	24	10	240	240	VI
	YHY-30008000	30	8	240	300	VI
	YHY-36005560	36	6.67	240	300	VI
	YHY-48004170	48	5	240	300	VI
	YHY-56003570	56	4.29	240	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

9Vdc=090

yyy:

Power

200W=200

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				4.0	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
Power Factor Correction		0.9			
No Load Power Consumption	110Vac / 220Vac			0.21	W
Fuse		5			A

OUTPUT

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

PROTATION

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

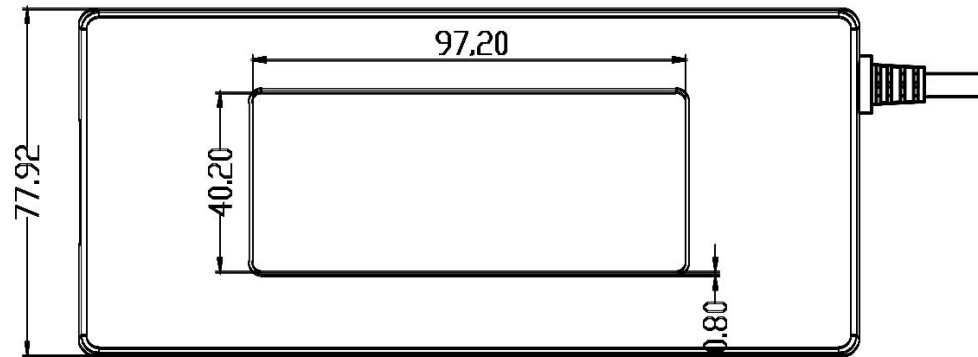
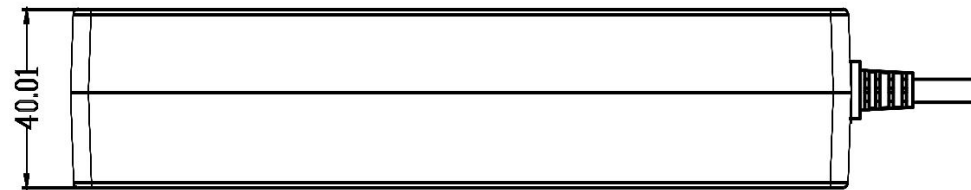
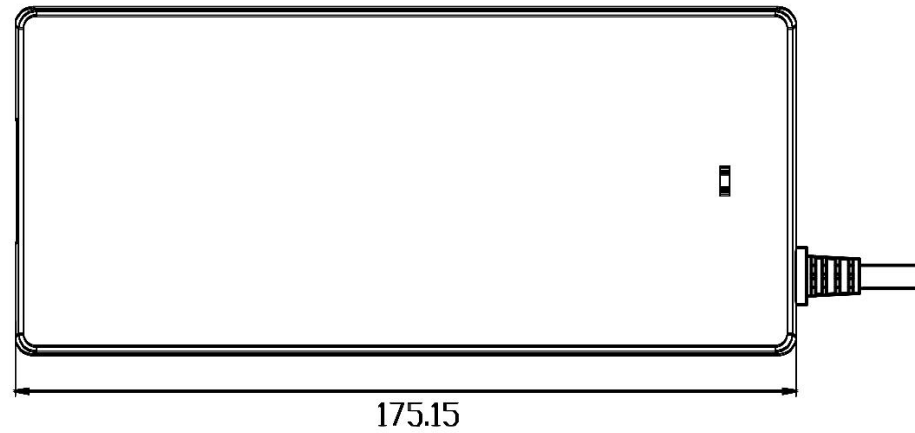
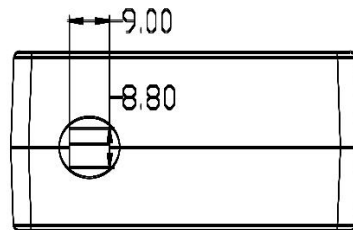
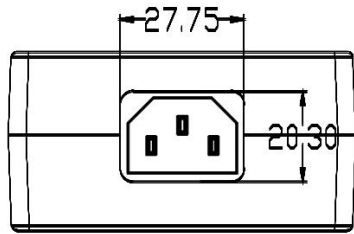
MECHANICAL

Paramater	Description	Min.	Typ	Max.	Units
Dimension	175 x 78 x 40				mm
Inlet AC Connector	IEC320-C14				
Weight	Without AC Power Cord				g

MECHANICAL DRAWING

Unit: mm

Tolerance: ± 0.2



DC CABLE

Unit: mm

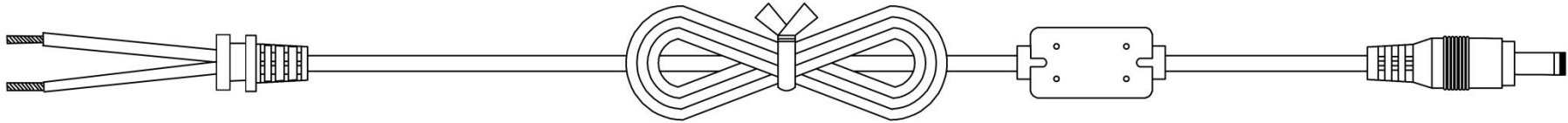


Table 1

Cable	Length
UL2464, 14AWG	1200mm±30
UL2468, 14AWG	1200mm±30
UL1185, 14AWG	1200mm±30

DC CONNECTOR

Plug Polarity
P= Center Positive



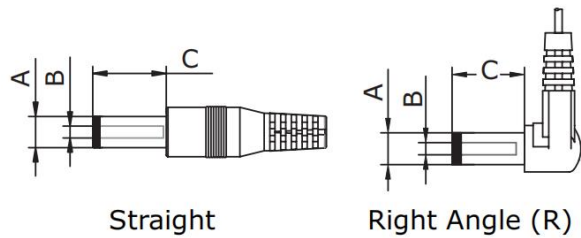
N= Center Negative



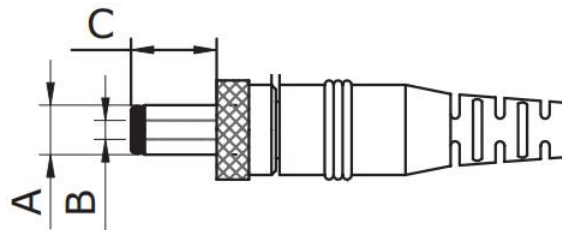
Plug Polarity		Type	Dimensions (mm)			Plug Angle	
Center Pos.	Center Neg.		A	B	C	Straight	Right
■	■	Barrel	5.5	2.1	10	■	■
■	■		5.5	2.5	10	■	■
■	■		6.5	3.0	10	■	N/A
■	■	Locking	5.5	2.1	9.5	■	N/A
■	■		5.5	2.5	9.5	■	N/A

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

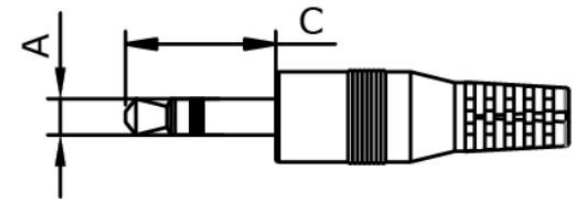
Barrel



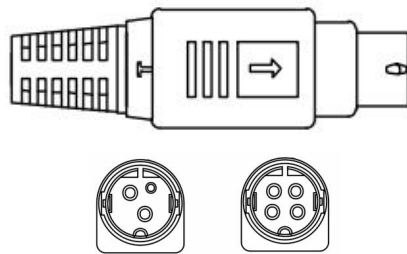
Locking



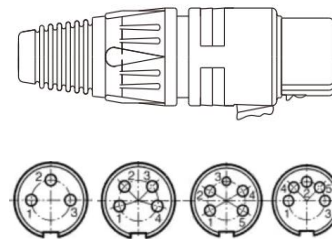
Audio



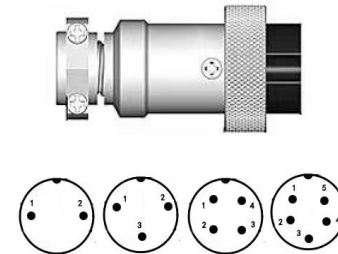
Din



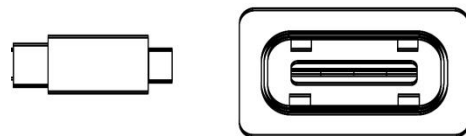
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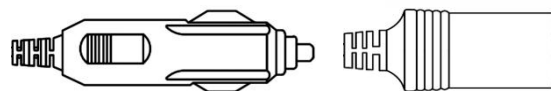
Aviation Connector



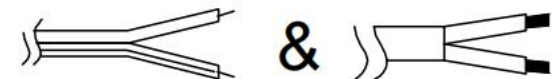
USB Type C



Cigarette Lighter



Stripped & Tinned



AC Power Cord

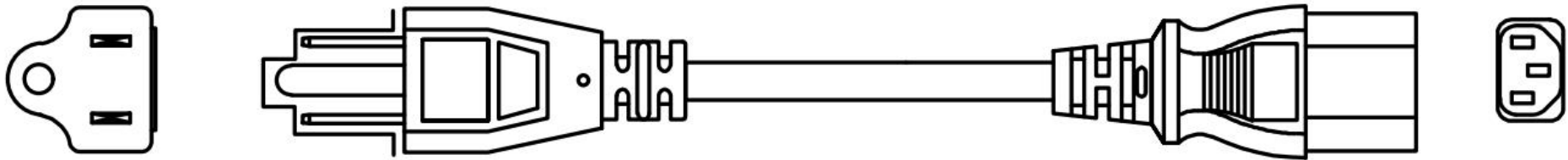
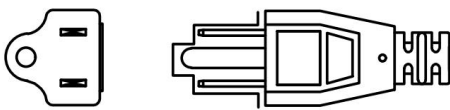


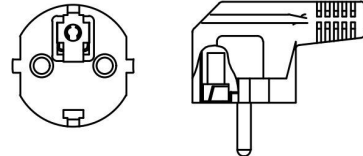
Table 2

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

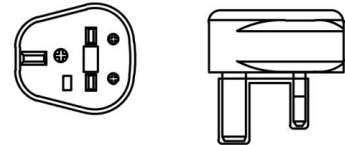
NORTH AMERICA



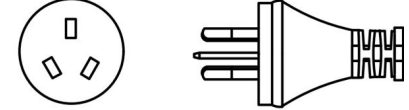
EUROPE



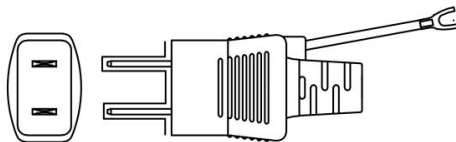
UNITED KINGDOM



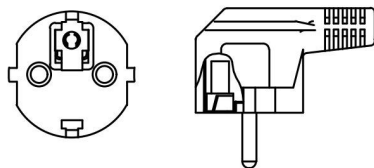
AUSTRALIA



JAPAN



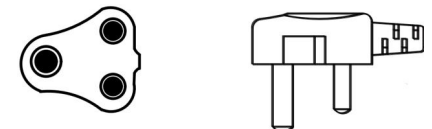
SOUTH KOREA



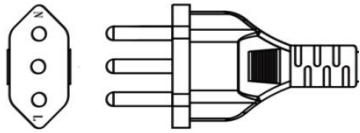
CHINA



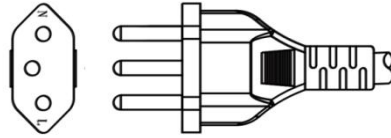
SOUTH AFRICA



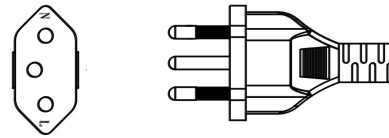
ITALY



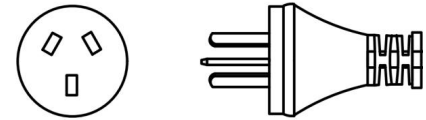
SWITZERLAND



BRAZIL



ARGENTINA



REVISION HISTORY

REV.	Description	Date
1.0	Initial release	2025-6-17



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