

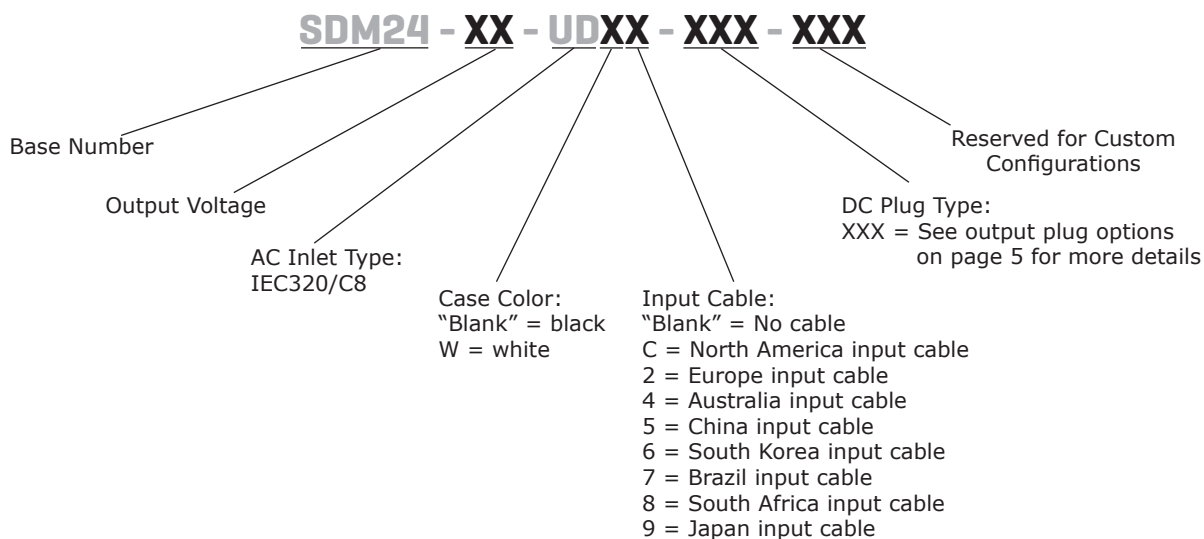
SERIES: SDM24-UD | DESCRIPTION: AC-DC POWER SUPPLY
FEATURES

- up to 27 W continuous power
- universal input voltage range
- compact size
- no load power consumption < 0.10 W
- over voltage and short circuit protections
- UL/cUL, TUV (60601-1)
- black and white case options



MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise ¹ max (mVp-p)	efficiency level
SDM24-5-UD	5	4	20	100	VI
SDM24-9-UD	9	3	27	180	VI
SDM24-12-UD	12	2	24	240	VI
SDM24-24-UD	24	1	24	360	VI

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, output terminated with 0.1 μ F multilayer ceramic and 47 μ F low ESR electrolytic capacitors.

PART NUMBER KEY


INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current	at 115 Vac, full load			1.0	A
inrush current	at 230 Vac, full load, 25°C, cold start			60	A
leakage current	at 264 Vac/50 Hz			0.1	mA
no load power consumption	at 115 Vac/60 Hz & 230 Vac/50 Hz			0.1	W

OUTPUT

parameter	conditions/description	min	typ	max	units
load regulation			±5		%
line regulation	at full load		±1		%
start-up time				3	s
rise time	at full load, 10~90% output voltage			50	ms
hold-up time	at full load	8.3			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	5 Vdc output model			8.5	V
	9 Vdc output model			18.0	V
	12 Vdc output model			18.0	V
	24 Vdc output model			36.0	V
short circuit protection	continuous, auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 2 seconds		4,000		Vac
isolation resistance	input to output at 500 Vdc	100			MΩ
safety approvals	60601: UL/cUL, TUV				
EMI/EMC	CE, FCC				
MTBF	as per MIL-HDBK-217F, 25°C	100,000			hours
RoHS	yes				

ENVIRONMENTAL

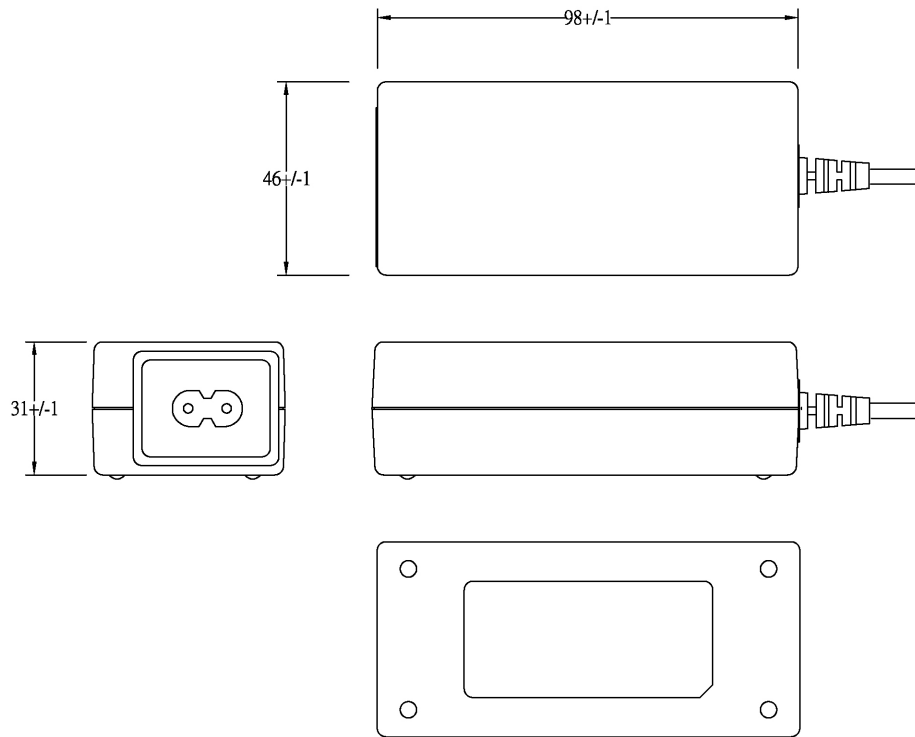
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		85	°C
operating humidity	non-condensing	10		90	%
storage humidity	non-condensing	5		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	98.0 (L) x 46.0 (W) x 31.0 (H)				mm
inlet plug	IEC320/C8				
weight			200		g

MECHANICAL DRAWING

units: mm
tolerance: ± 1.0 mm



DC CORD

units: mm

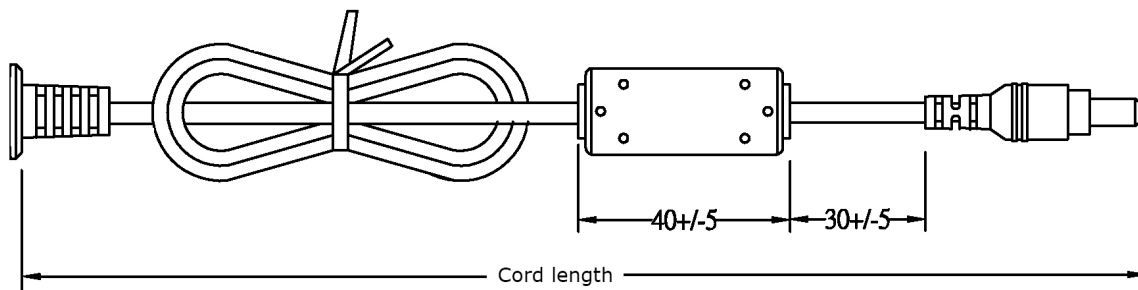
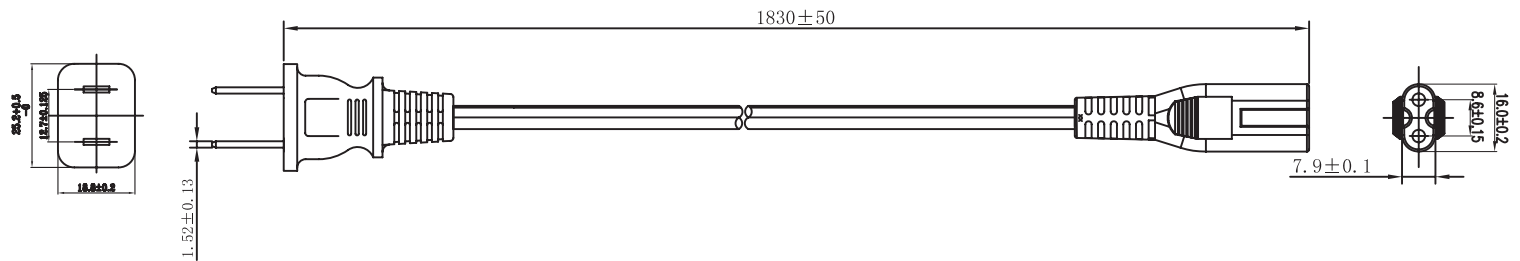


Table 1

MODEL NO.	CABLE	CORD LENGTH
SDM24-5-UD	UL1185, 16 AWG	1,200 mm ± 30
SDM24-9-UD	UL1185, 16 AWG	1,200 mm ± 30
SDM24-12-UD	UL1185, 18 AWG	1,200 mm ± 30
SDM24-24-UD	UL1185, 18 AWG	1,200 mm ± 30

AC CORDS

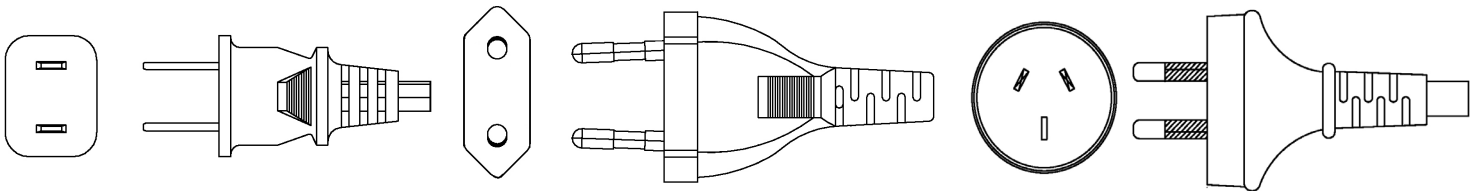
units: mm



NORTH AMERICA

EUROPE

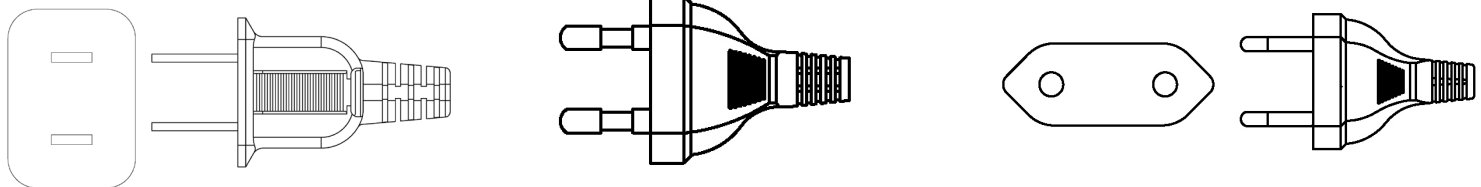
AUSTRALIA



CHINA

KOREA

BRAZIL



SOUTH AFRICA

JAPAN

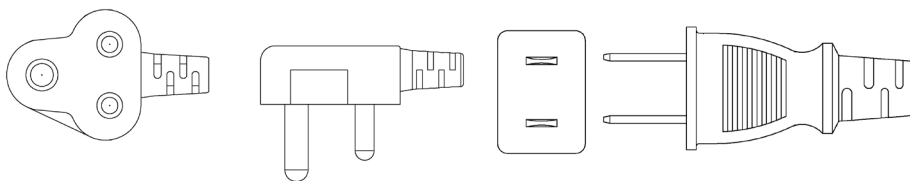
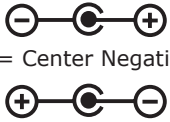


Table 2

AC Input	Cord Length
North America	1,830 mm ±50
Europe	1,830 mm ±50
Australia	1,830 mm ±50
China	1,830 mm ±50
South Korea	1,830 mm ±50
Brazil	1,800 mm ±50
South Africa	1,800 mm ±50
Japan	1,800 mm ±50

DC PLUG TYPE PART NUMBER KEY

XXX

Plug Polarity:
 P = Center Positive

 N = Center Negative

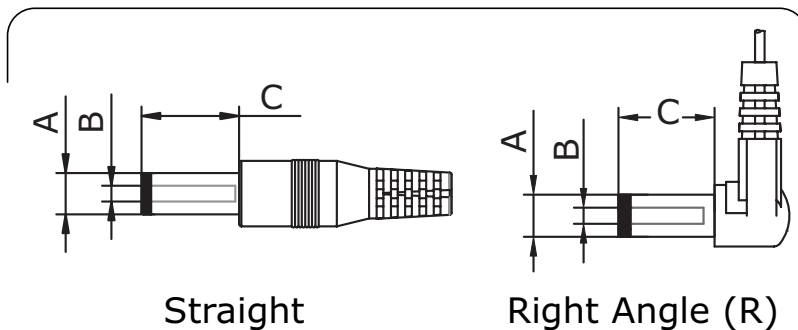
Plug Code:
 X = Choose a code from the options below

Plug Angle:
 "blank" = Straight
 R = Right Angle

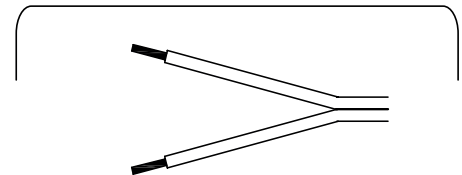
Plug Polarity		Code		Dimensions (mm)			Plug Angle	
Center Pos.	Center Neg.	Option	Type	A	B	C	Straight	Right
•	•	5	Standard	5.5	2.1	9.5	•	•
•	•	6	Standard	5.5	2.5	9.5	•	•
•	•	7	Standard	3.5	1.35	9.5	•	•
•	•	8	Standard	3.8	1.35	9.5	•	•
•	•	9	Standard	3.8	1.05	9.5	•	•
N/A	N/A	ST	Stripped & Tinned				N/A	N/A

Note: 1. Contact CUI for additional plug options

Standard



Stripped & Tinned



REVISION HISTORY

rev.	description	date
1.0	initial release	04/16/2021
1.01	product image updated	05/31/2021

The revision history provided is for informational purposes only and is believed to be accurate.



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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

Mouser Electronics

Authorized Distributor

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CUI Inc.:

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