

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

FEATURES

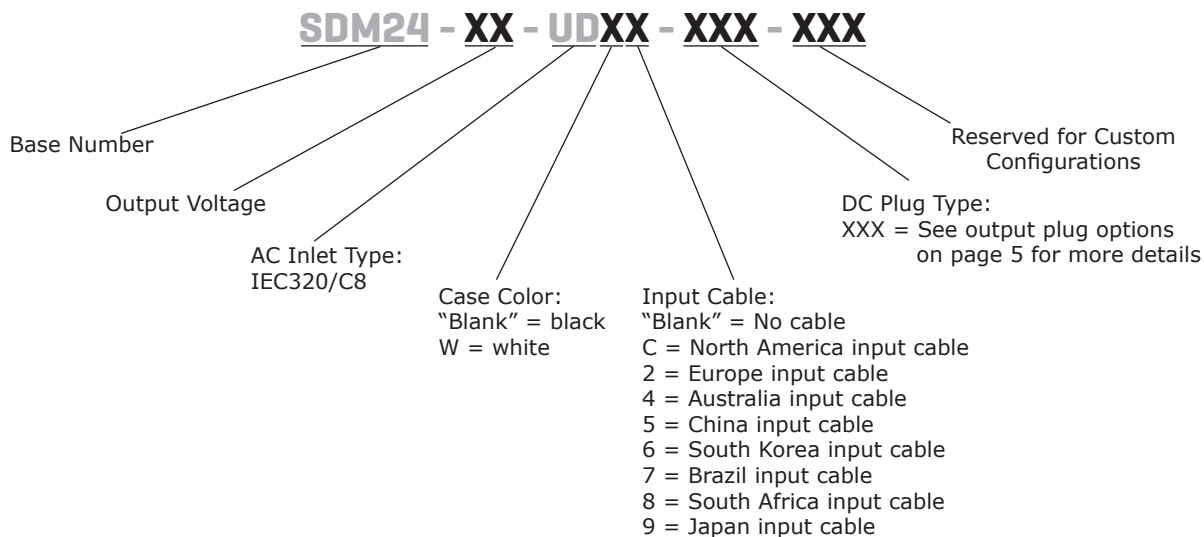
- up to 27 W continuous power
- universal input voltage range
- compact size
- no load power consumption < 0.10 W
- over voltage and short circuit protections
- UL/cUL, TUV (60601-1)
- black and white case options



MODEL	output voltage	output current max	output power max	ripple and noise ¹ max	efficiency level
	(Vdc)	(A)	(W)	(mVp-p)	
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 µF multilayer ceramic and 47 µF 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

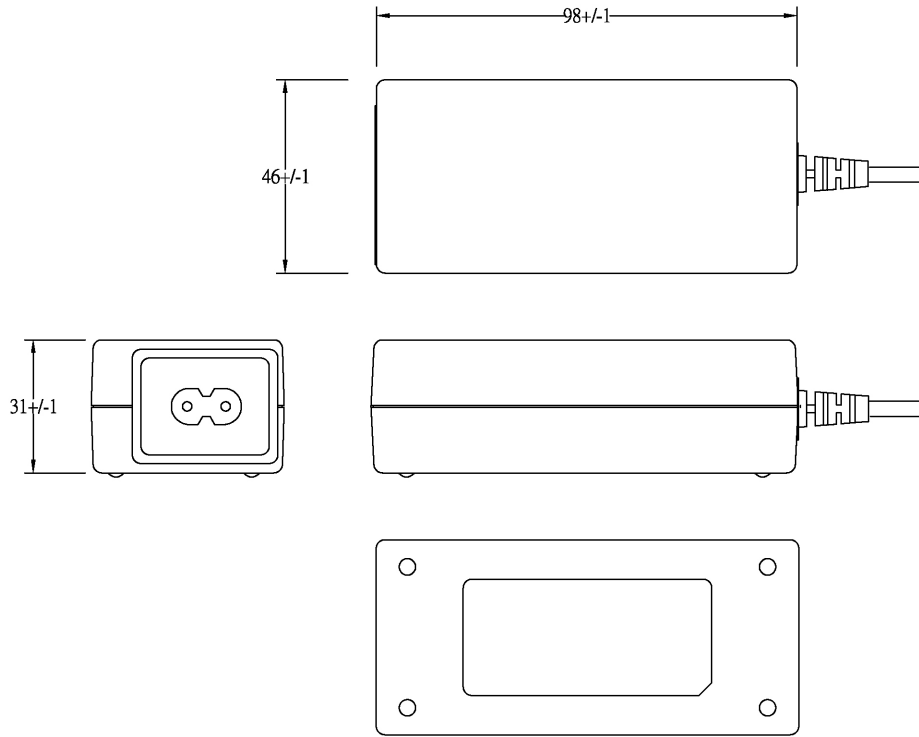
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		85	°C
operating humidity	non-condensing	10		90	%
storage humidity	non-condensing	5		90	%

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

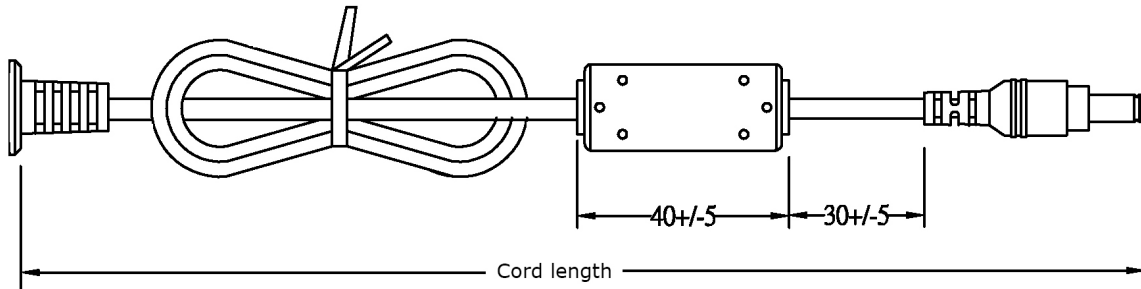
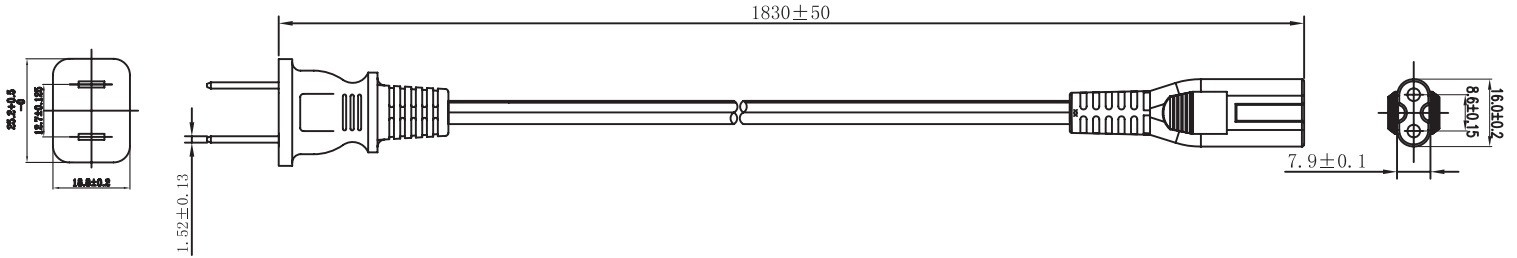


Table 1

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

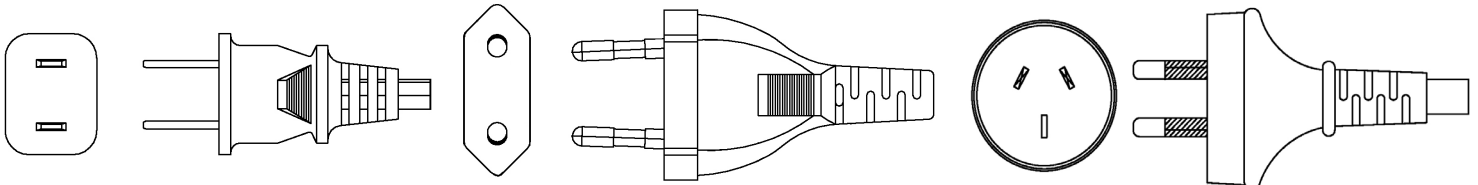
units: mm



NORTH AMERICA

EUROPE

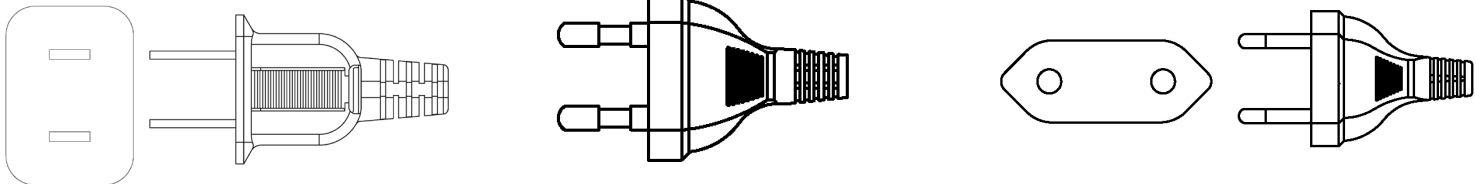
AUSTRALIA



CHINA

KOREA

BRAZIL



SOUTH AFRICA

JAPAN

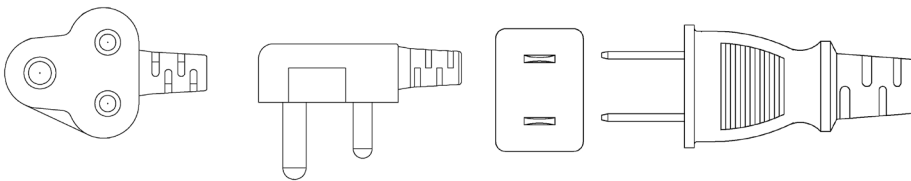




Table 2

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

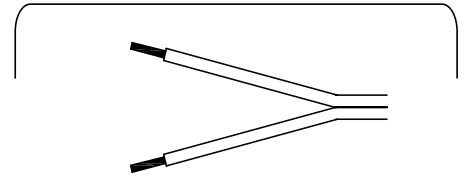
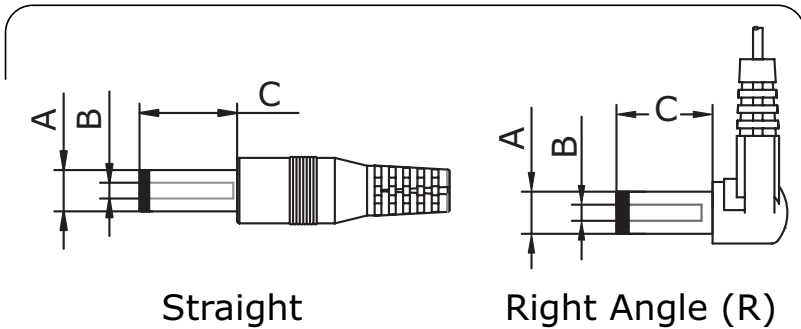
Plug Angle:
 "blank" = Straight
 R = Right Angle

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.

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