SERIES: SDM65-UD | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

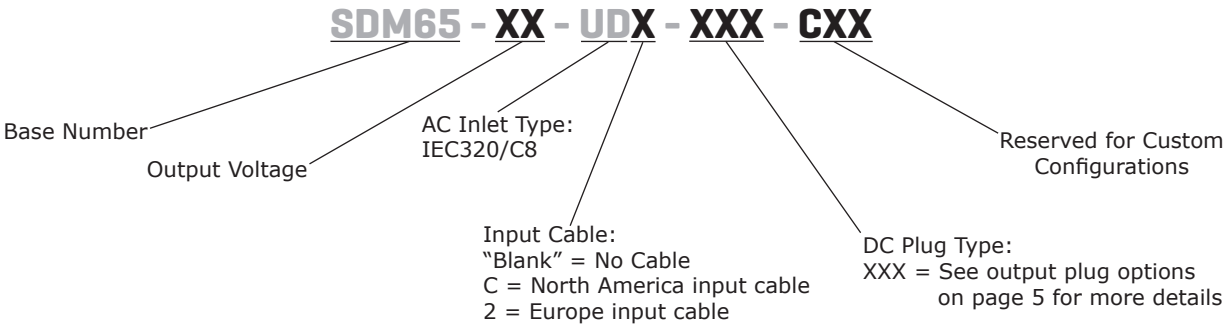
- up to 65 W continuous power
- meets DoE Level VI efficiency
- universal input voltage range
- compact size
- no load power consumption < 0.21 W
- over voltage and short circuit protections
- UL/cUL, TUV (60601-1), and PSE safety approvals
- LED indicator
- custom designs available

MODEL

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level
SDM65-12-UD	12	5	60	150	VI
SDM65-15-UD	15	4.34	65	150	VI
SDM65-18-UD	18	3.62	65	180	VI
SDM65-19-UD	19	3.43	65	190	VI
SDM65-24-UD	24	2.71	65	240	VI
SDM65-48-UD	48	1.36	65	480	VI

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF multilayer ceramic and 10 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				1.6	A
inrush current	at 240 Vac, full load, 25°C, cold start			80	A
leakage current				0.1	mA
no load power consumption	at 230 Vac			0.21	W

OUTPUT

parameter	conditions/description	min	typ	max	units
regulation			±5		%

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	output shut down, latch			150	%
over current protection	output shut down, auto recovery			170	%
short circuit protection	output shut down, auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 1 minute		4,000		Vac
isolation resistance	input to output at 500 Vdc	10			MΩ
safety approvals	Medical: UL/cUL, TUV (60601-1) ITE: PSE				
EMI/EMC	FCC Part 15B Class B, CE				
MTBF	as per Telcordia SR-332, 25°C	300,000			hours
RoHS	yes				

ENVIRONMENTAL

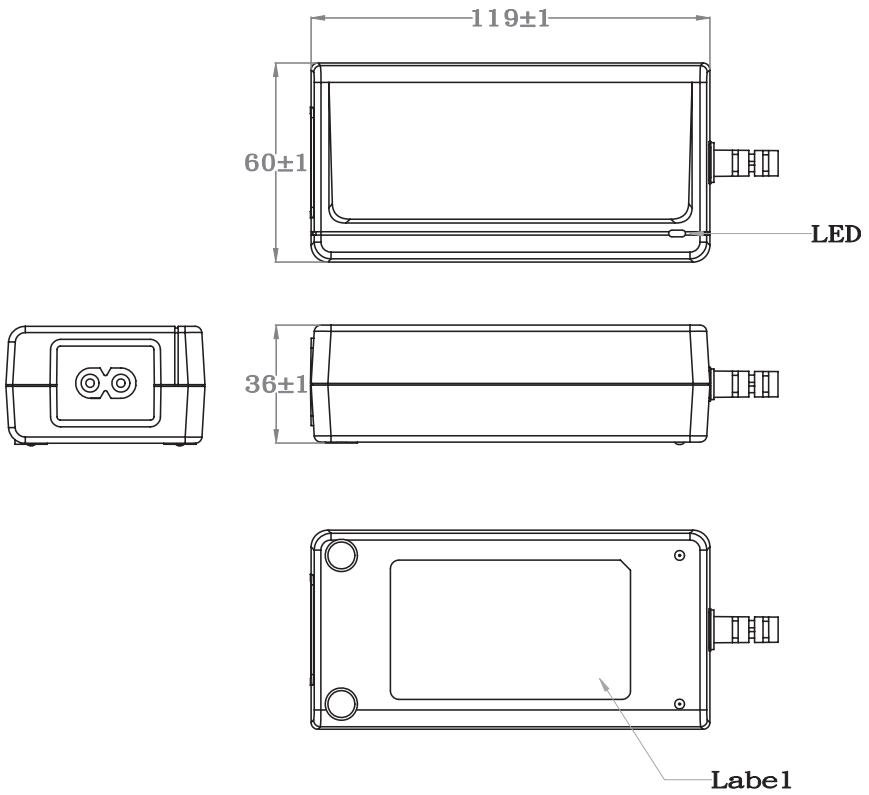
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		80	°C
operating humidity	non-condensing	20		80	%
storage humidity	non-condensing	10		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	119 x 60 x 36				mm
inlet plug	IEC320/C8				
weight	without ac cord		310		g

MECHANICAL DRAWING

units: mm
tolerance:±1.0 mm



DC CORD

units: mm

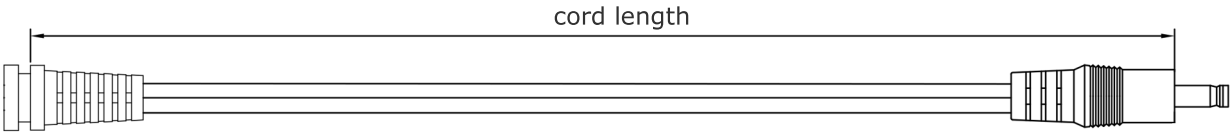


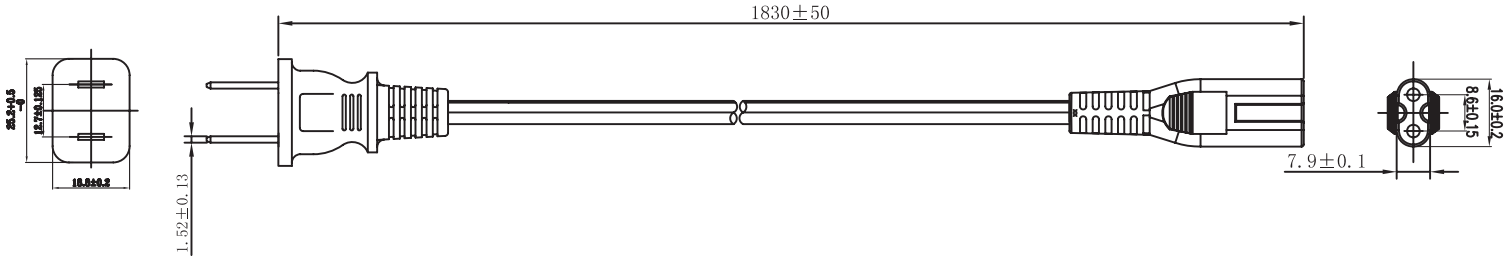
Table 1

MODEL NO.	CABLE	CORD LENGTH
SDM65-12-UD	UL1185, 16 AWG	1,500 mm ±30
SDM65-15-UD	UL1185, 16 AWG	1,500 mm ±30
SDM65-18-UD	UL1185, 18 AWG	1,500 mm ±30
SDM65-19-UD	UL1185, 18 AWG	1,500 mm ±30
SDM65-24-UD	UL1185, 18 AWG	1,500 mm ±30
SDM65-48-UD	UL1185, 18 AWG	1,500 mm ±30

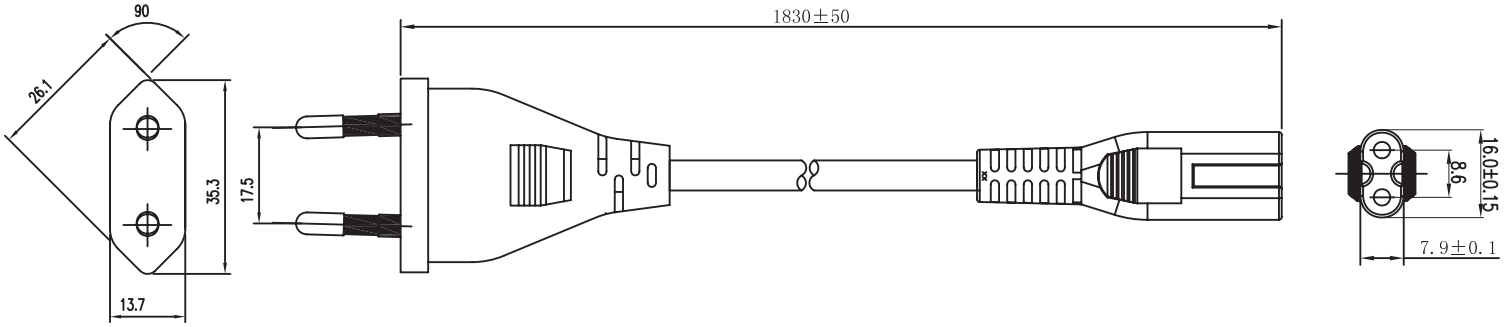
AC CORDS

units: mm

NORTH AMERICA



EUROPE



DC PLUG TYPE PART NUMBER KEY

X X X

Plug Polarity:
P = Center Positive

N = Center Negative

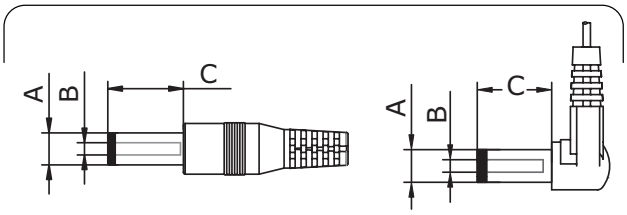
Plug Code:
X = Choose a code from the options below

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	•	•
•	•	10	Locking	5.5	2.1	9.5	•	N/A
•	•	11	Locking	5.5	2.5	9.5	•	N/A
•	•	12	EIAJ-1	2.35	0.7	9.5	•	•
•	•	13	EIAJ-2	4.0	1.7	9.5	•	•
•	•	14	EIAJ-3	4.75	1.7	9.5	•	•
N/A	N/A	ST	Stripped & Tinned				N/A	N/A

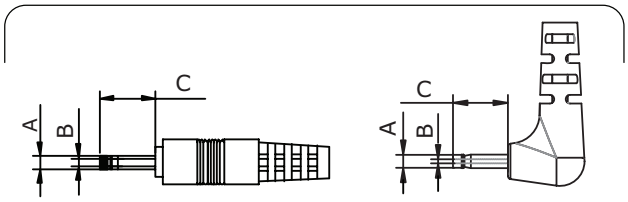
Note: 1. Contact CUI for additional plug options

Standard



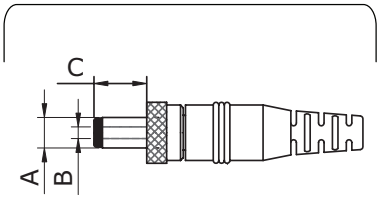
Straight Right Angle (R)

EIAJ

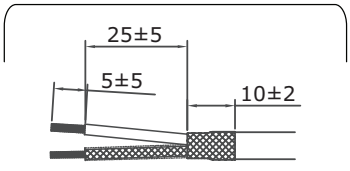


Straight Right Angle (R)

Locking



Stripped & Tinned



REVISION HISTORY

rev.	description	date
1.0	initial release	06/10/2019

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

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