

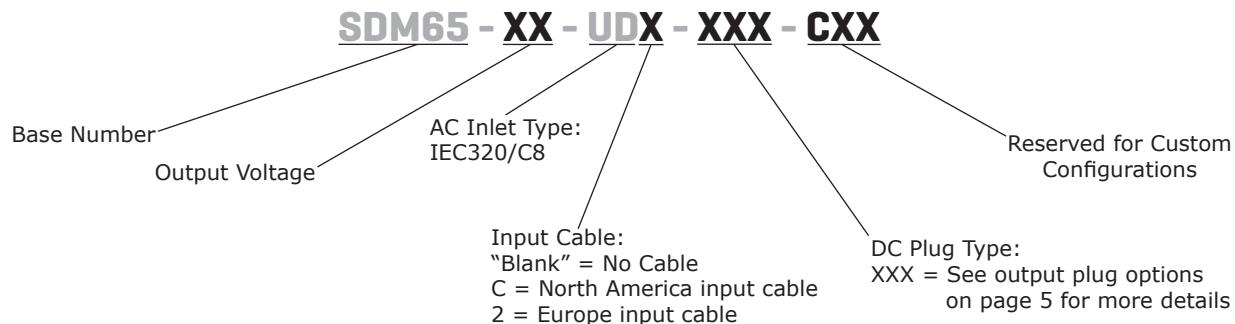
**SERIES: SDM65-UD | DESCRIPTION: AC-DC POWER SUPPLY**
**FEATURES**

- 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 <sup>1</sup> 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  $\mu$ F multilayer ceramic and 10  $\mu$ 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				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**

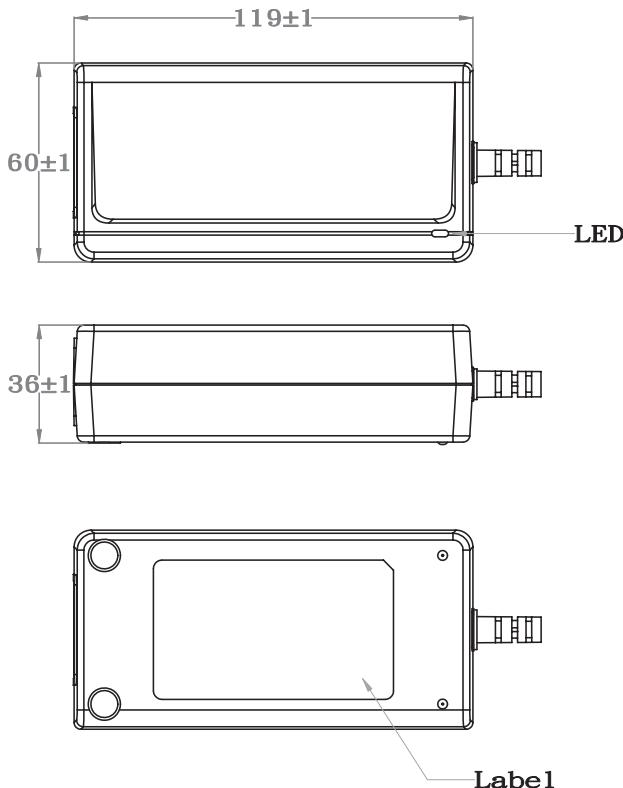
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		80	°C
operating humidity	non-condensing	20		80	%
storage humidity	non-condensing	10		90	%

## 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:  $\pm 1.0$  mm



## DC CORD

units: mm

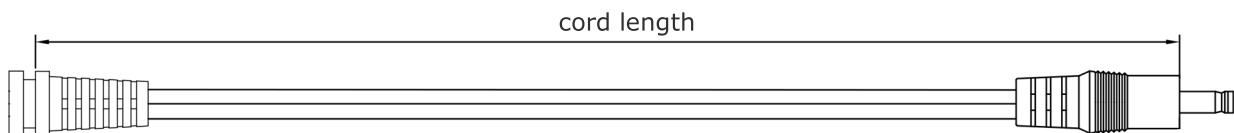


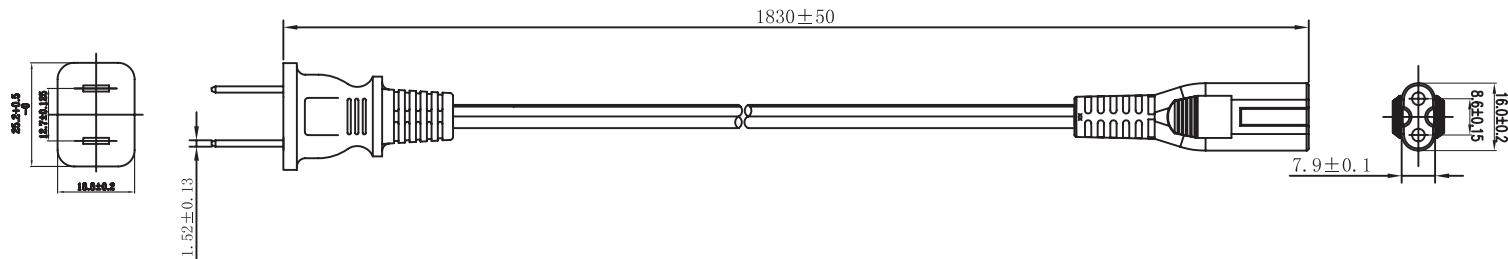
Table 1

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

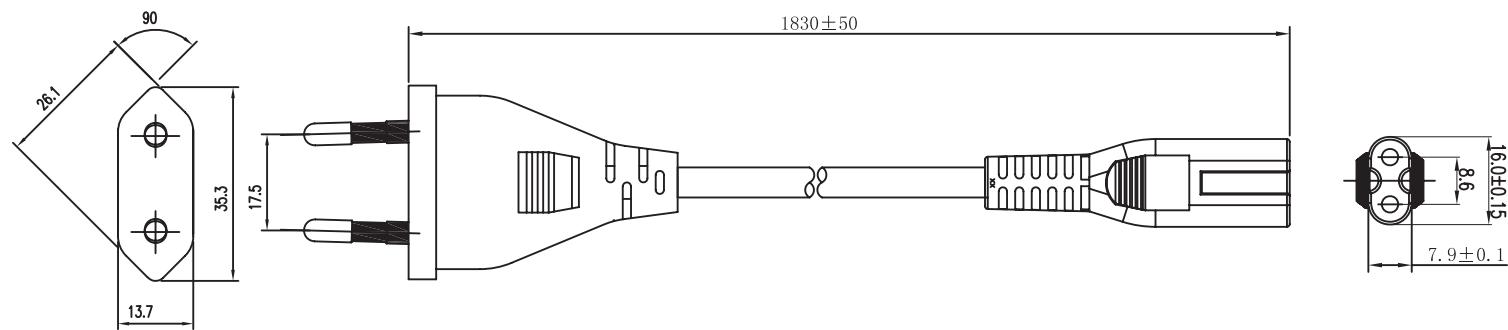
## AC CORDS

units: mm

### NORTH AMERICA



### EUROPE



## 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

<b>Plug Polarity</b>		<b>Code</b>		<b>Dimensions (mm)</b>			<b>Plug Angle</b>	
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

The image shows two diagrams of standard DC power plugs. The left diagram, labeled 'Straight', shows a plug with a cylindrical body and a flat base. The right diagram, labeled 'Right Angle (R)', shows a similar plug with a 90-degree angled base. Both diagrams include dimension lines labeled A, B, and C. Dimension A is the height of the base, dimension B is the width of the base, and dimension C is the length of the cylindrical body.

### EIAJ

The image shows two diagrams of EIAJ DC power plugs. The left diagram, labeled 'Straight', shows a plug with a cylindrical body and a flat base. The right diagram, labeled 'Right Angle (R)', shows a similar plug with a 90-degree angled base. Both diagrams include dimension lines labeled A, B, and C. Dimension A is the height of the base, dimension B is the width of the base, and dimension C is the length of the cylindrical body.

### Locking

The image shows a diagram of a locking DC power plug. It features a cylindrical body with a locking mechanism at the base. Dimension lines A, B, and C are shown: A is the height of the base, B is the width of the base, and C is the length of the cylindrical body.

### Stripped & Tinned

The image shows a diagram of a stripped and tinned DC power plug. It features a cylindrical body with a stripped and tinned metal jacket. Dimension lines A, B, and C are shown: A is the height of the base, B is the width of the base, and C is the length of the cylindrical body. Specific dimensions are labeled: 25±5 for the total length, 5±5 for the base height, and 10±2 for the base width.

cui.com

## 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.



**Headquarters**  
20050 SW 112th Ave.  
Tualatin, OR 97062  
**800.275.4899**

Fax 503.612.2383  
[cui.com](http://cui.com)  
[techsupport@cui.com](mailto:techsupport@cui.com)

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.