

**SERIES:** SDM300G-U | **DESCRIPTION:** AC-DC POWER SUPPLY

**FEATURES**

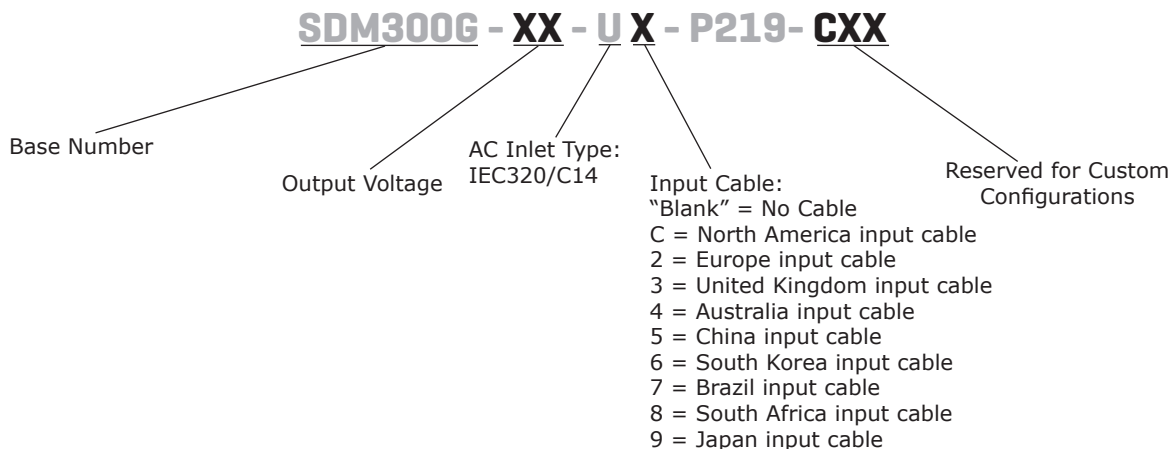
- GaN technology
- compact size
- 300 W power
- universal input (90~264 Vac)
- single regulated outputs
- over voltage, over current, over temperature and short circuit protections
- UL/cUL (60601), TUV
- level VI efficiency
- power factor correction
- custom designs available



MODEL	output voltage	output current	output power	ripple and noise <sup>1</sup>	efficiency level
	(Vdc)	max (A)	max (W)	max (mVp-p)	
SDM300G-12-U	12	24.0	288	120	VI
SDM300G-15-U	15	20.0	300	150	VI
SDM300G-19-U	19	15.79	300	190	VI
SDM300G-24-U	24	12.5	300	240	VI
SDM300G-48-U	48	6.25	300	480	VI

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, each 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		100		240	Vac
frequency		50		60	Hz
current		1.5		3.5	A
inrush current	at 240 Vac, full load, 25°C, cold start			150	A
leakage current				0.1	mA
no load power consumption	at 115 & 230 Vac			0.5	W
power factor	at 115 & 230 Vac, full load	0.9			

## OUTPUT

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

## PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	latch			150	%
over current protection	auto recovery			180	%
short circuit protection	auto recovery				
over temperature protection	output shut down				

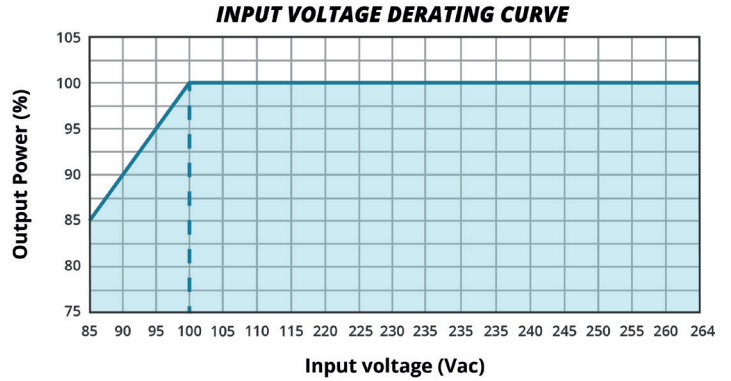
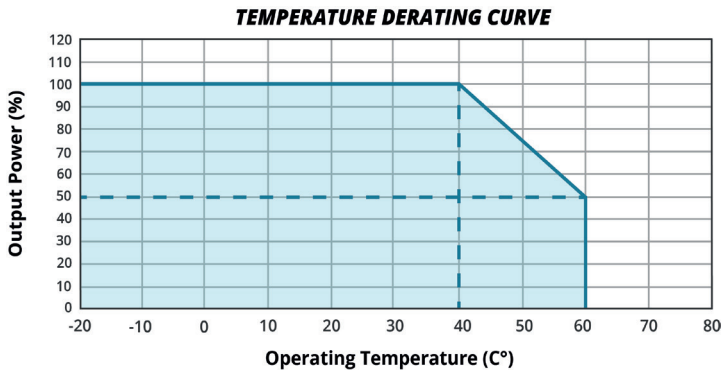
## SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 1 minute input to ground at 10 mA for 1 minute		4,000 1,770		Vac Vac
isolation resistance	input to output at 500 Vdc input to ground at 500 Vdc	10 10			MΩ MΩ
safety approvals	UL/cUL 60601, TUV, UKCA, CB				
EMI/EMC	CE, FCC				
MTBF	as per Telcordia SR-332, 25°C	300,000			hours
RoHS	yes				

## ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature	60°C max at 50% load, see derating curve	-20		40	°C
storage temperature		-20		80	°C
operating humidity	non-condensing	20		80	%
storage humidity	non-condensing	10		90	%

## DERATING CURVES

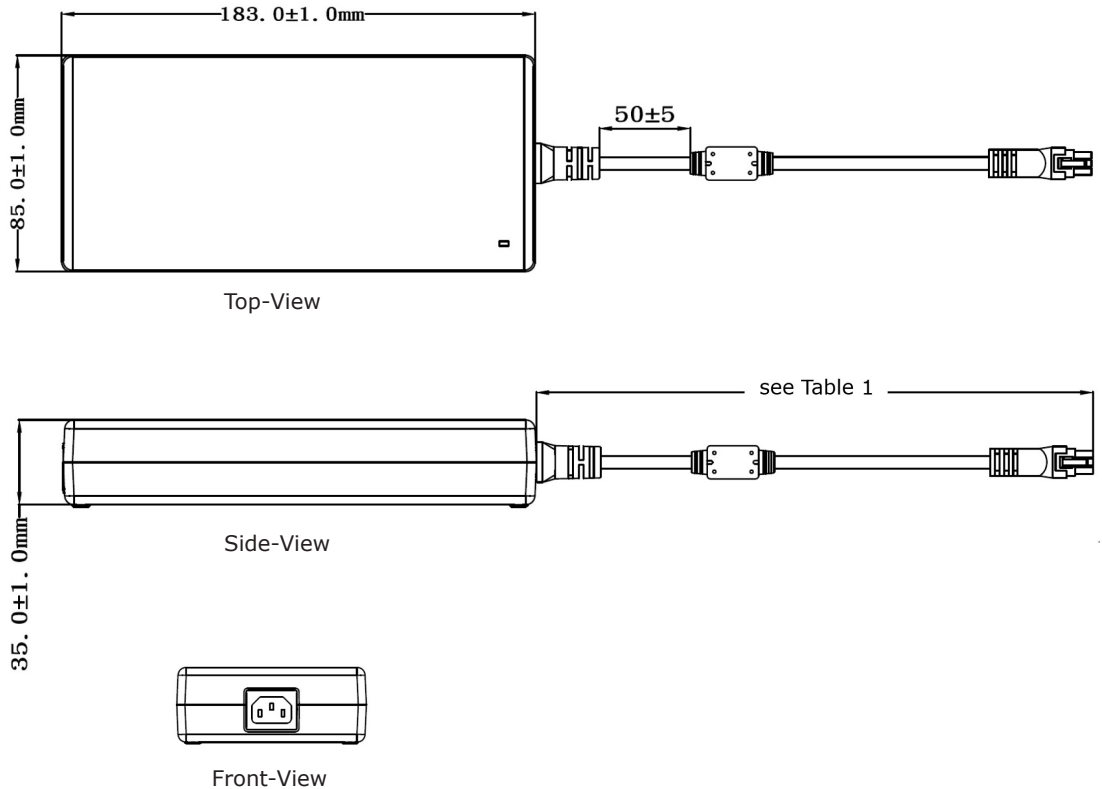


## MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	183.0 (L) x 85.0 (W) x 35.0 (H)				mm
dc output plug	6 pin housing				
weight	12, 15, 19 Vdc output models 24, 48 Vdc output models		1100 1000		g

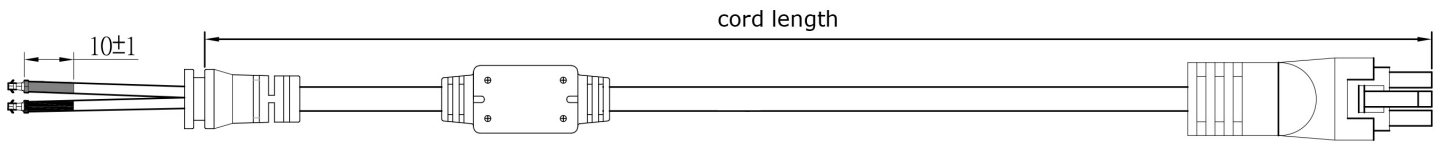
## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 1.0$  mm



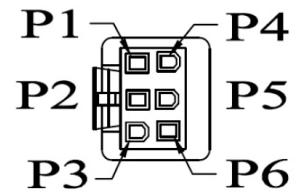
## DC CORD

units: mm



**Table 1**

MODEL NO.	CABLE	CORD LENGTH
SDM300G-12-U	Black, UL2464, 16 AWG	1,000 mm ±50
SDM300G-15-U	Black, UL2464, 16 AWG	1,000 mm ±50
SDM300G-19-U	Black, UL2464, 16 AWG	1,000 mm ±50
SDM300G-24-U	Black, UL2464, 16 AWG	1,200 mm ±50
SDM300G-48-U	Black, UL2464, 18 AWG	1,200 mm ±50



Output cable plug pin assignment

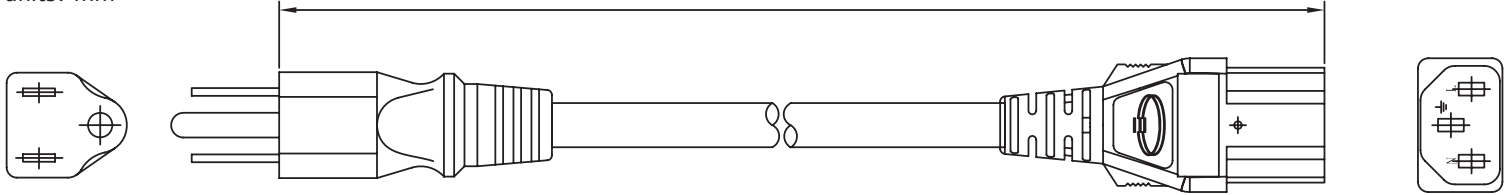
**Table 2**

PIN ASSIGNMENT		
PIN	OUTPUT VOLTAGE	
	12V/15V/19V	24V/48V
P1	+Vout	+Vout
P2	+Vout	NC
P3	+Vout	+Vout
P4	-Vout	-Vout
P5	-Vout	NC
P6	-Vout	-Vout

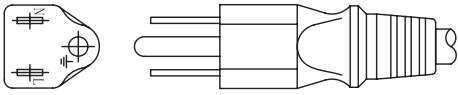
## AC CORD

units: mm

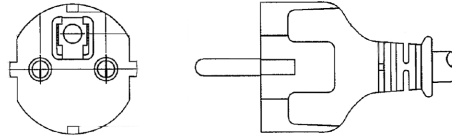
cord length



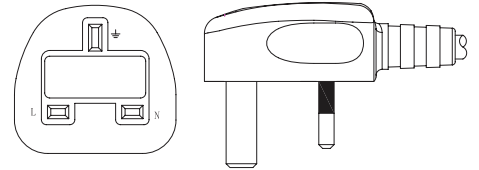
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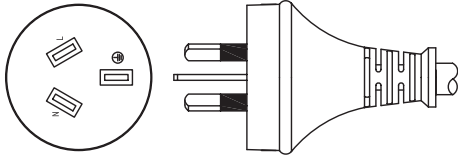
### EUROPE



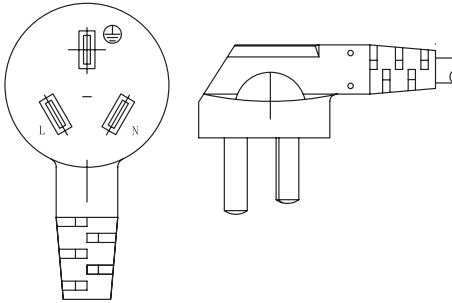
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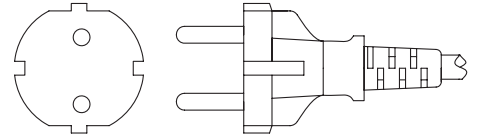
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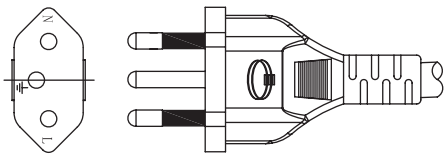
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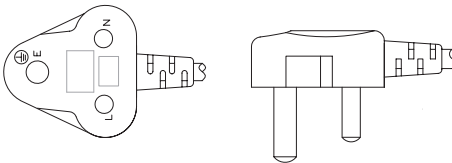
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### BRAZIL



### SOUTH AFRICA



### JAPAN

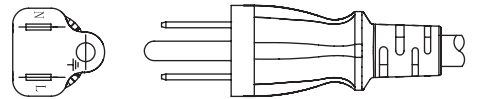


Table 2

AC Input	Cord Length
North America	1,830 mm ±30
Europe	1,830 mm ±30
United Kingdom	1,830 mm ±30
Australia	1,830 mm ±30
China	1,830 mm ±30
South Korea	1,830 mm ±50
Brazil	1,830 mm ±30
South Africa	1,830 mm ±50
Japan	1,830 mm ±30

## REVISION HISTORY

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rev.	description	date
1.0	initial release	06/27/2022

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



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