

SERIES: SDI200G-UD | **DESCRIPTION:** AC-DC POWER SUPPLY

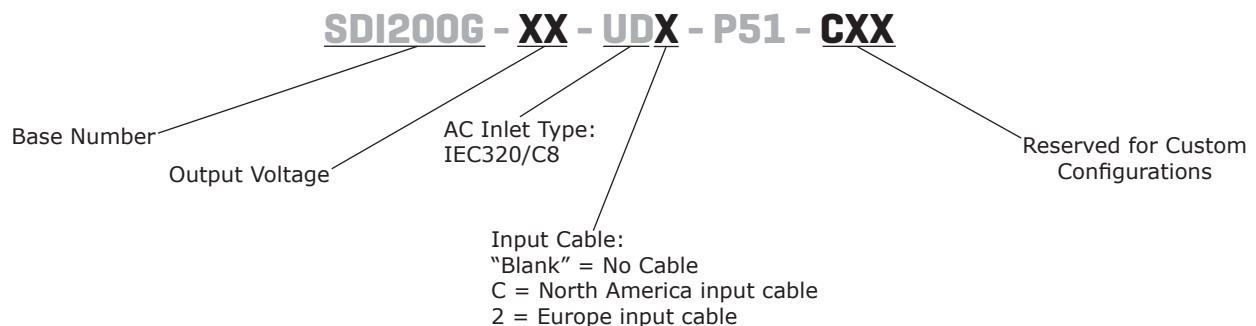
FEATURES

- GaN technology
- compact size
- 200 W power
- universal input (90~264 Vac)
- single regulated outputs
- over voltage, over current, over temperature and short circuit protections
- UL/cUL (62368-1), level VI efficiency
- power factor correction
- custom designs available



MODEL	output voltage	output current max	output power max	ripple and noise ¹ max	efficiency level
	(Vdc)	(A)	(W)	(mVp-p)	
SDI200G-12-UD	12	16	192	120	VI
SDI200G-18-UD	18	11.1	200	180	VI
SDI200G-19-UD	19	10.5	200	190	VI
SDI200G-19.5-UD	19.5	10.2	200	190	VI
SDI200G-20-UD	20	10	200	240	VI
SDI200G-24-UD	24	8.3	200	240	VI
SDI200G-48-UD	48	4.2	202	480	VI
SDI200G-56-UD	56	3.6	202	560	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		100		240	Vac
frequency		50		60	Hz
current				2.4	A
inrush current	at 240 Vac, full load, 25°C, cold start			100	A
leakage current				0.25	mA
no load power consumption	at 230 Vac & 115			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 and latch			180	%
over current protection	output shut down and automatic recovery			180	%
short circuit protection	output shut down and automatic recovery				
over temperature protection	output shut down and latch				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 1 minute		3,000		Vac
isolation resistance	input to output at 500 Vdc	10			MΩ
safety approvals	UL/cUL (62368-1)				
EMI/EMC	FCC Part 15B Class B, CE				
MTBF	as per Telcordia SR-332, 25°C	300,000			hours
RoHS	2011/65/EU				

ENVIRONMENTAL

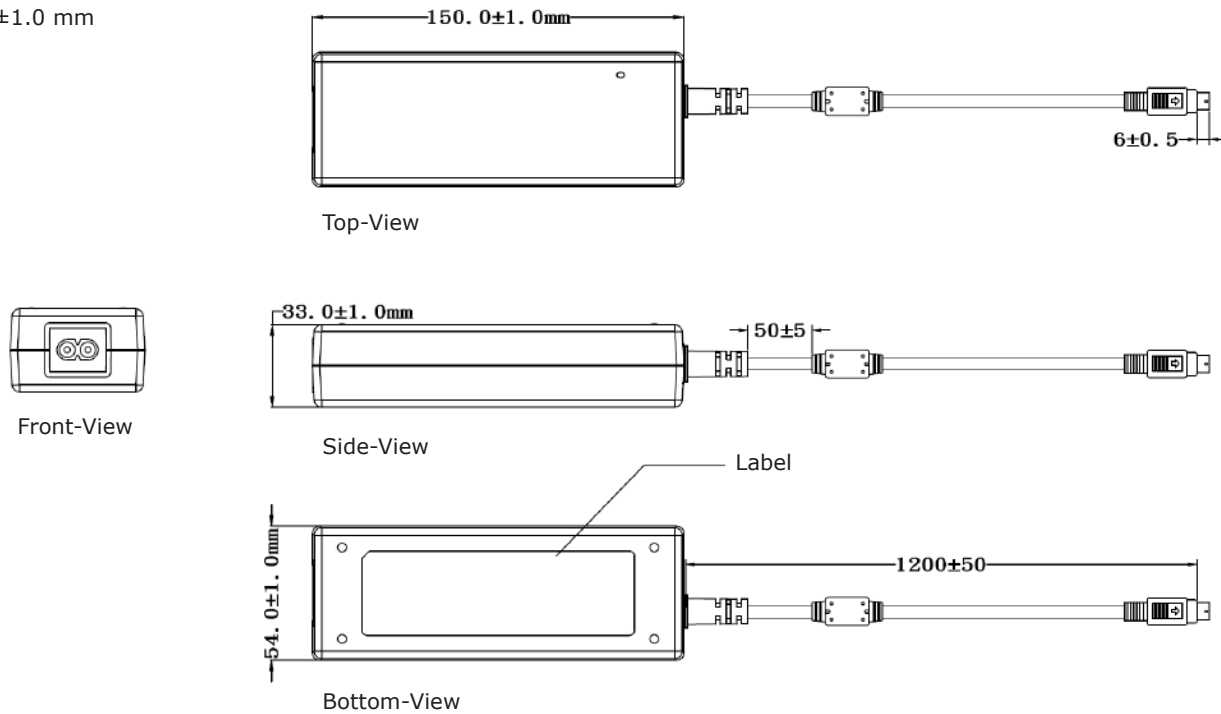
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		80	°C
operating humidity	non-condensing	20		80	%
storage humidity	non-condensing	10		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	150 x 54 x 33				mm
inlet plug	4 pin din				
weight	without ac cord		560		g

MECHANICAL DRAWING

units: mm

tolerance: ± 1.0 mm

DC CORD

units: mm

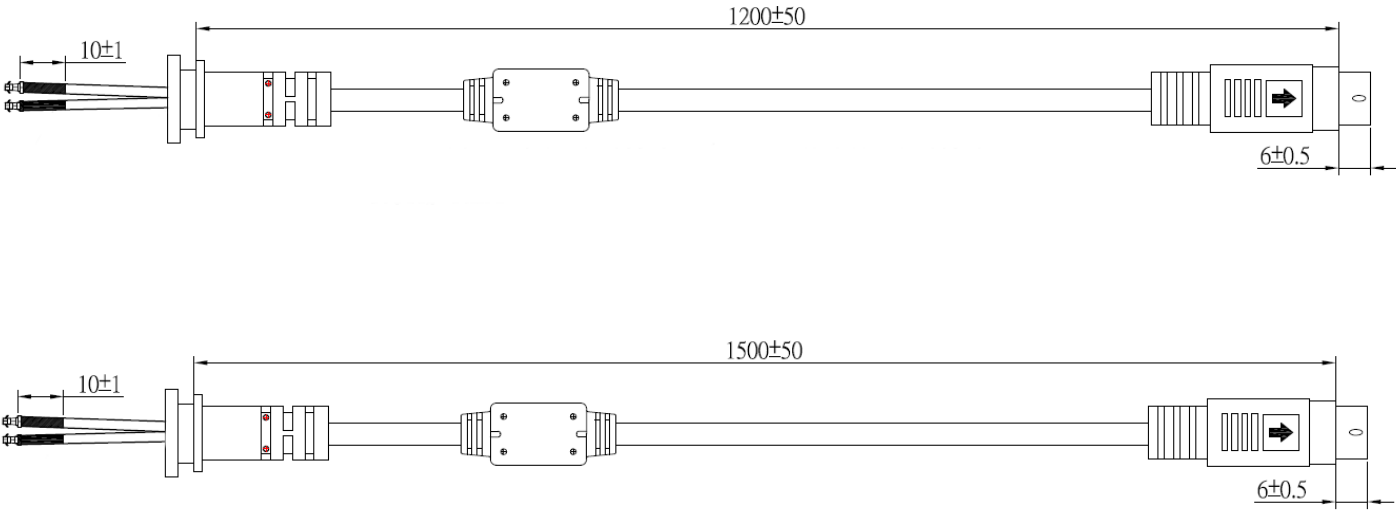
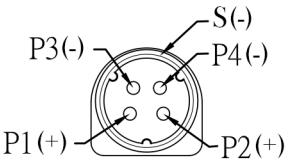


Table 1

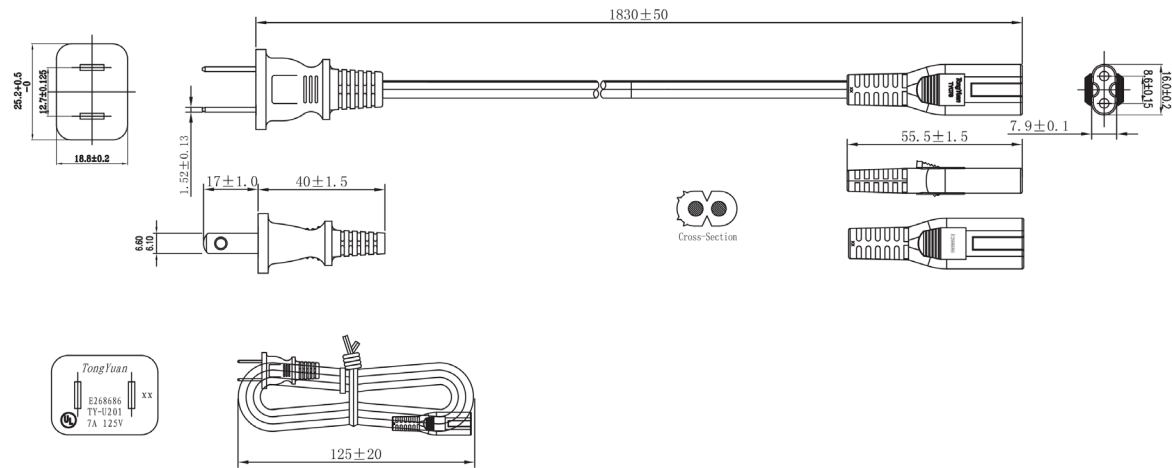
MODEL NO.	CABLE	CORD LENGTH
SDI200G-12-UD	Black, UL2095, 16 AWG	1,200 mm ±50
SDI200G-18-UD	Black, UL2095, 16 AWG	1,500 mm ±50
SDI200G-19-UD	Black, UL2095, 16 AWG	1,500 mm ±50
SDI200G-19.5-UD	Black, UL2095, 16 AWG	1,500 mm ±50
SDI200G-20-UD	Black, UL2095, 16 AWG	1,500 mm ±50
SDI200G-24-UD	Black, UL2095, 16 AWG	1,500 mm ±50
SDI200G-48-UD	Black, UL2095, 16 AWG	1,500 mm ±50
SDI200G-56-UD	Black, UL2095, 16 AWG	1,500 mm ±50



Output cable plug pin assignment

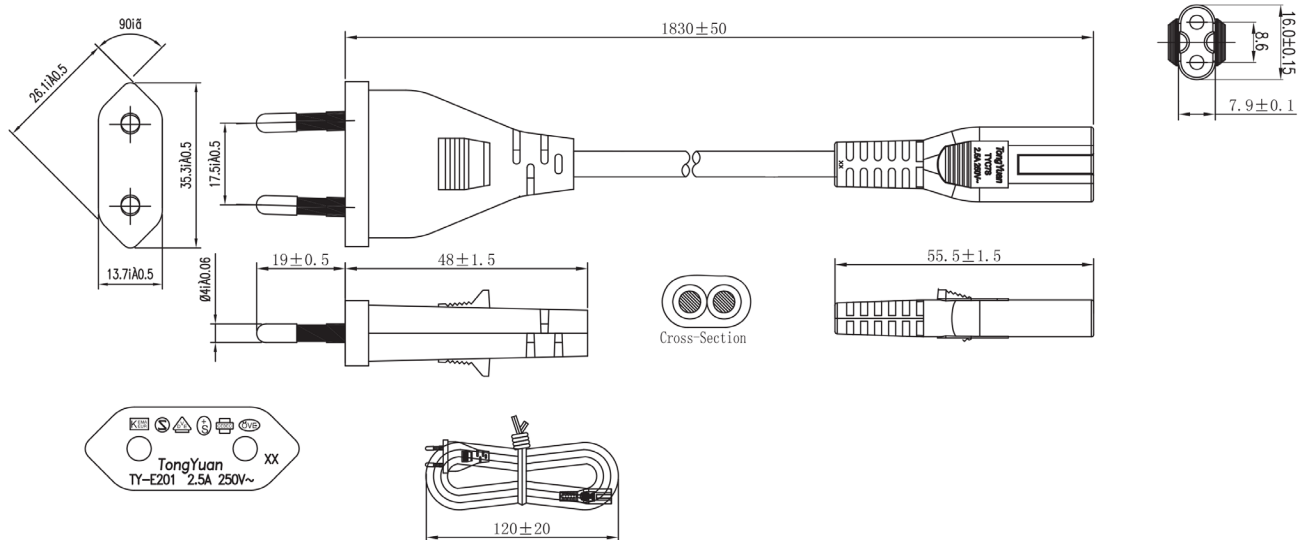
AC CORD (US)

units: mm



AC CORD (EU)

units: mm



REVISION HISTORY

rev.	description	date
1.0	initial release	1/23/2020
1.01	logo update	02/21/2020

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



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