SERIES: SDI200G-U | **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

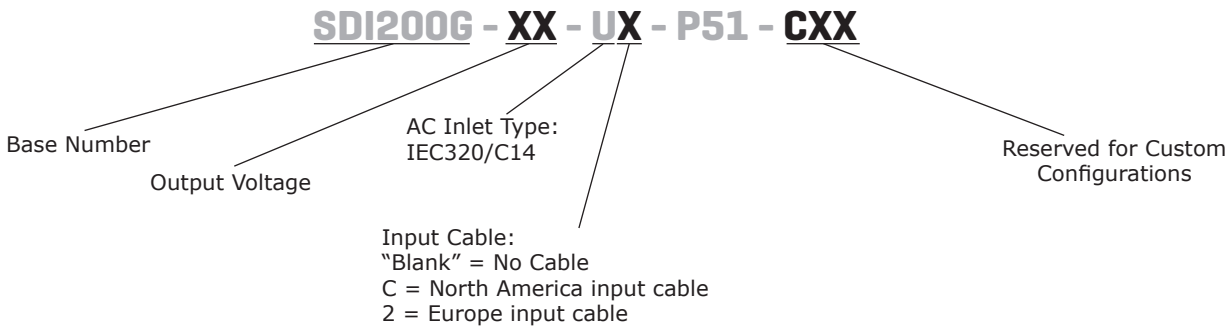


MODEL

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level
SDI200G-12-U	12	16	192	120	VI
SDI200G-18-U	18	11.1	200	180	VI
SDI200G-19-U	19	10.5	200	190	VI
SDI200G-19.5-U	19.5	10.2	200	190	VI
SDI200G-20-U	20	10	200	200	VI
SDI200G-24-U	24	8.3	200	240	VI
SDI200G-48-U	48	4.2	200	480	VI
SDI200G-56-U	56	3.6	200	560	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



Please read our datasheet & drawing disclaimer here.

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90	100~240	264	Vac
frequency		47	50~60	63	Hz
current				2.4	A
inrush current	at 240 Vac, full load, 25°C, cold start			100	A
leakage current				3.5	mA
no load power consumption	at 115 & 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 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), UKCA, PSE				
EMI/EMC	FCC Part 15B Class B, CE				
MTBF	as per Telcordia SR-332, 25°C	300,000			hours
RoHS	yes				

ENVIRONMENTAL

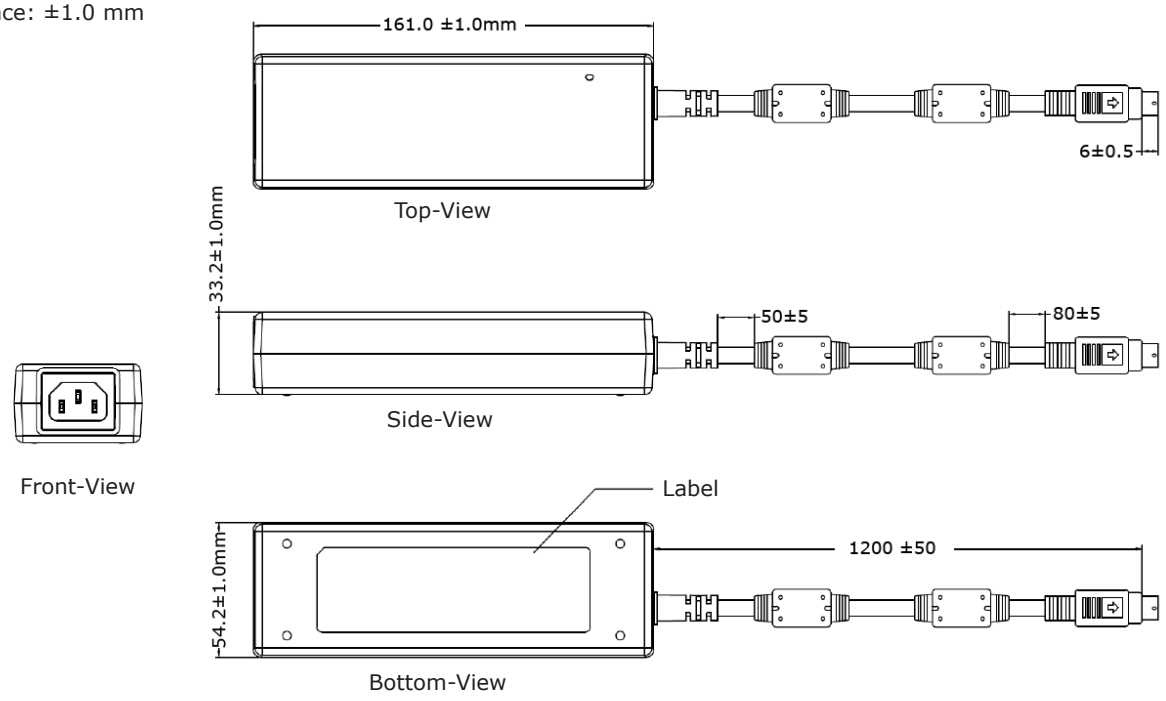
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		80	°C
operating humidity	non-condensing	20		80	%
storage humidity	non-condensing	10		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	161 x 54.2 x 33.2				mm
inlet plug	4 pin din				
weight	without ac cord		560		g

MECHANICAL DRAWING

units: mm
tolerance: ±1.0 mm



DC CORD

units: mm

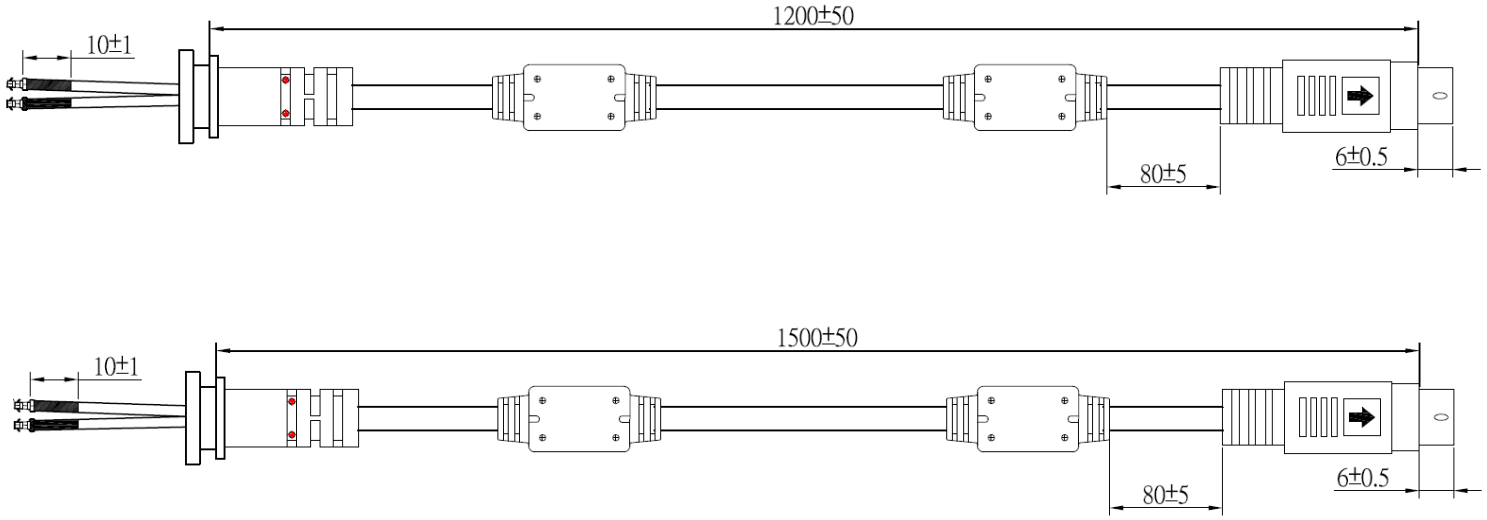
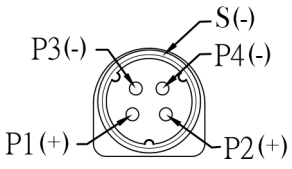


Table 1

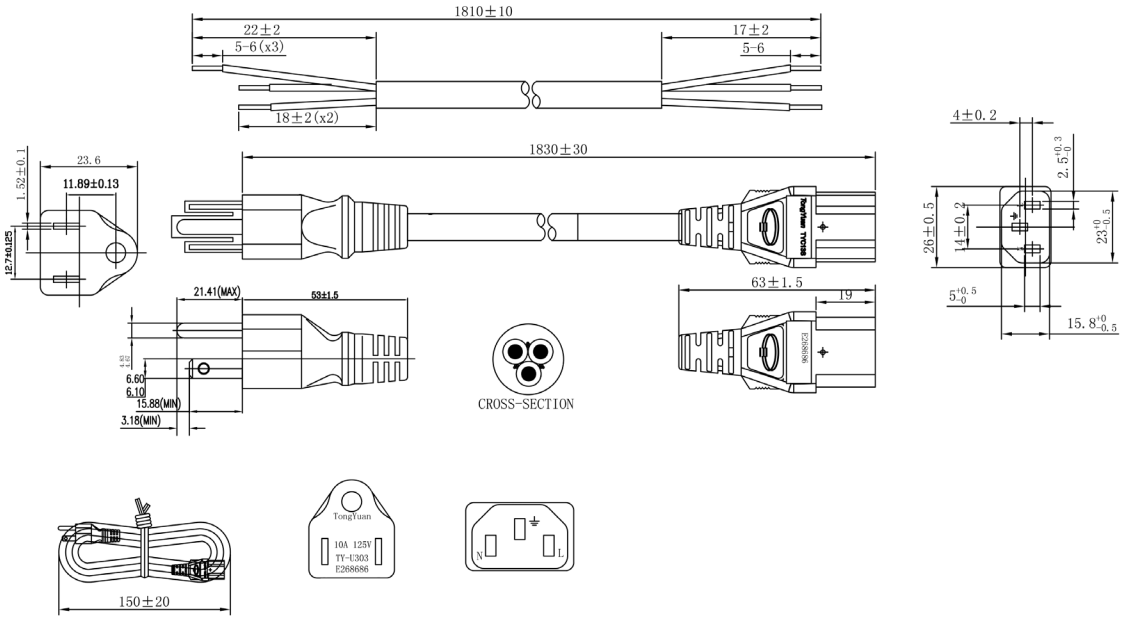
MODEL NO.	CABLE	CORD LENGTH
SDI200G-12-U	Black, UL2464, 16 AWG	1,200 mm ±50
SDI200G-18-U	Black, UL2464, 16 AWG	1,500 mm ±50
SDI200G-19-U	Black, UL2464, 16 AWG	1,500 mm ±50
SDI200G-19.5-U	Black, UL2464, 16 AWG	1,500 mm ±50
SDI200G-20-U	Black, UL2464, 16 AWG	1,500 mm ±50
SDI200G-24-U	Black, UL2464, 16 AWG	1,500 mm ±50
SDI200G-48-U	Black, UL2464, 16 AWG	1,500 mm ±50
SDI200G-56-U	Black, UL2464, 18 AWG	1,500 mm ±50



Output cable plug pin assignment

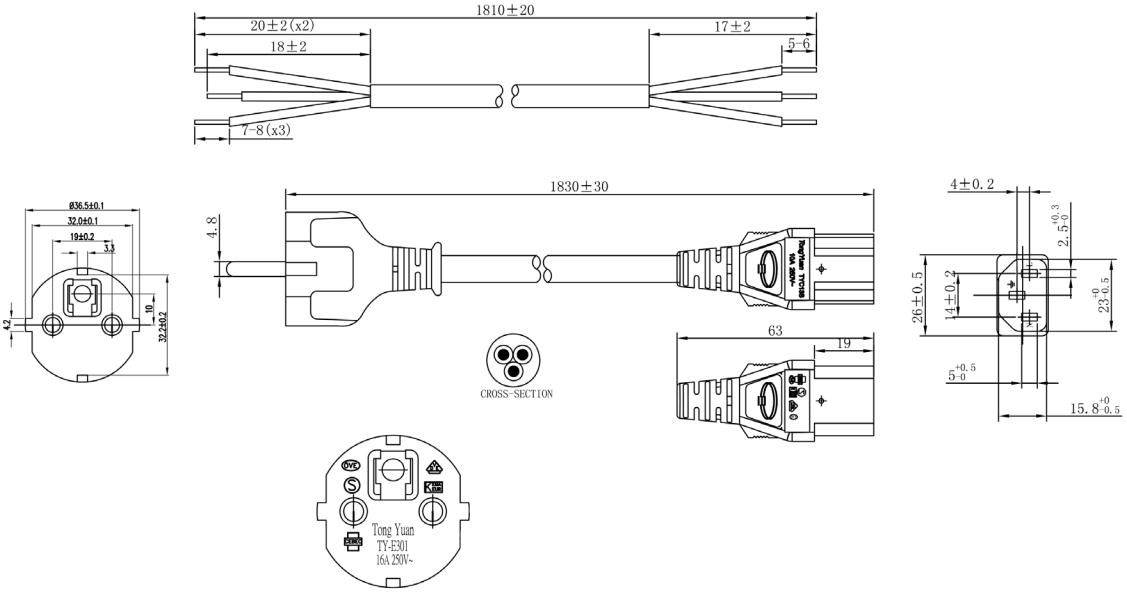
AC CORD (US)

units: mm



AC CORD (EU)

units: mm



REVISION HISTORY

rev.	description	date
1.0	initial release	01/14/2020
1.01	logo update	02/21/2020
1.02	UL mark added, tolerance updated	01/08/2021
1.03	dc cord table updated	05/06/2021
1.04	UKCA added to the specification	05/25/2021
1.05	dc cord updated	06/15/2021
1.06	input voltage updated	01/18/2023
1.07	PSE added to the specification	06/17/2026

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

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CUI offers a two (2) year limited warranty. Complete warranty information is listed on our website.

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