

SERIES: SDI200-U | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

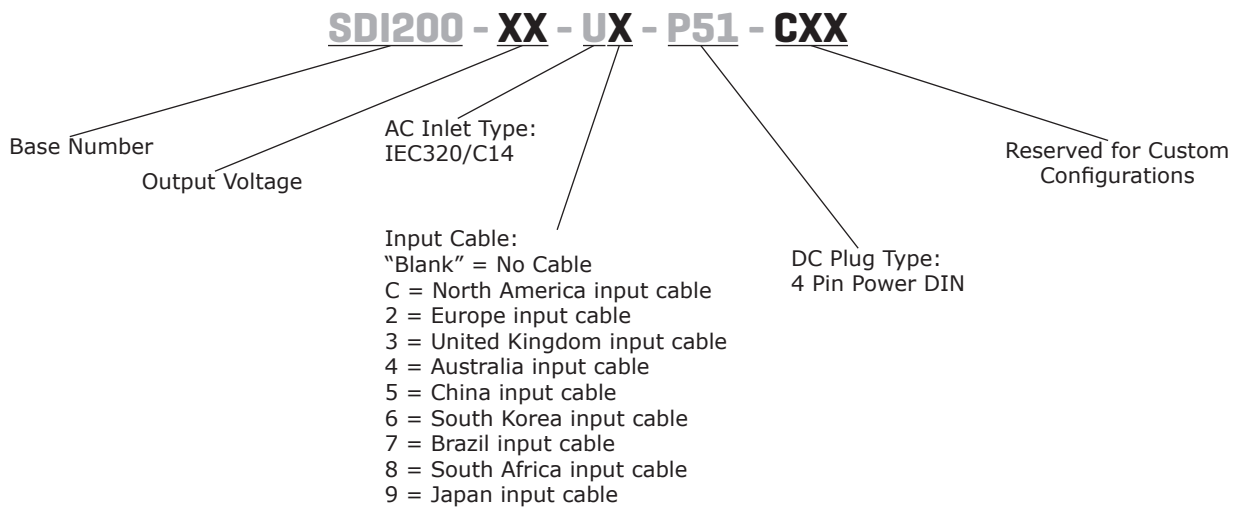
- level VI efficiency
- 200 W power
- universal input (90~264 Vac)
- single regulated outputs
- over voltage and short circuit protections
- UL/cUL (60950-1 & 62368-1), PSE safety approvals
- power factor correction
- custom designs available



MODEL	output voltage	output current max	output power max	ripple and noise ¹ max	efficiency level
	(Vdc)	(A)	(W)	(mVp-p)	
SDI200-12-U	12	16	192	150	VI ²
SDI200-13.5-U	13.5	14	189	200	VI
SDI200-19-U	19	10.5	200	190	VI
SDI200-24-U	24	8.3	200	240	VI ²
SDI200-48-U	48	4.17	200	480	VI ²
SDI200-56-U	56	3.58	200	560	VI ²

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.
2. CoC Tier 2 compliant.

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				2.8	A
inrush current	at 240 Vac, full load, 25°C, cold start			100	A
leakage current				3.5	mA
power factor correction	at 115/230 Vac, full load	0.9			
no load power consumption	12, 24, 48, 56 Vdc output models all other models			0.15 0.21	W W

OUTPUT

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

PROTECTIONS

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

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		3,000 1,500		Vac Vac
isolation resistance	input to output at 500 Vdc input to ground at 500 Vdc	10 10			MΩ MΩ
safety approvals	UL/cUL (60950-1, 62368-1), PSE, UKCA				
EMI/EMC	FCC Part 15B Class B, CE				
MTBF	as per Telcordia SR-332, 25°C	300,000			hours
RoHS	yes				

ENVIRONMENTAL

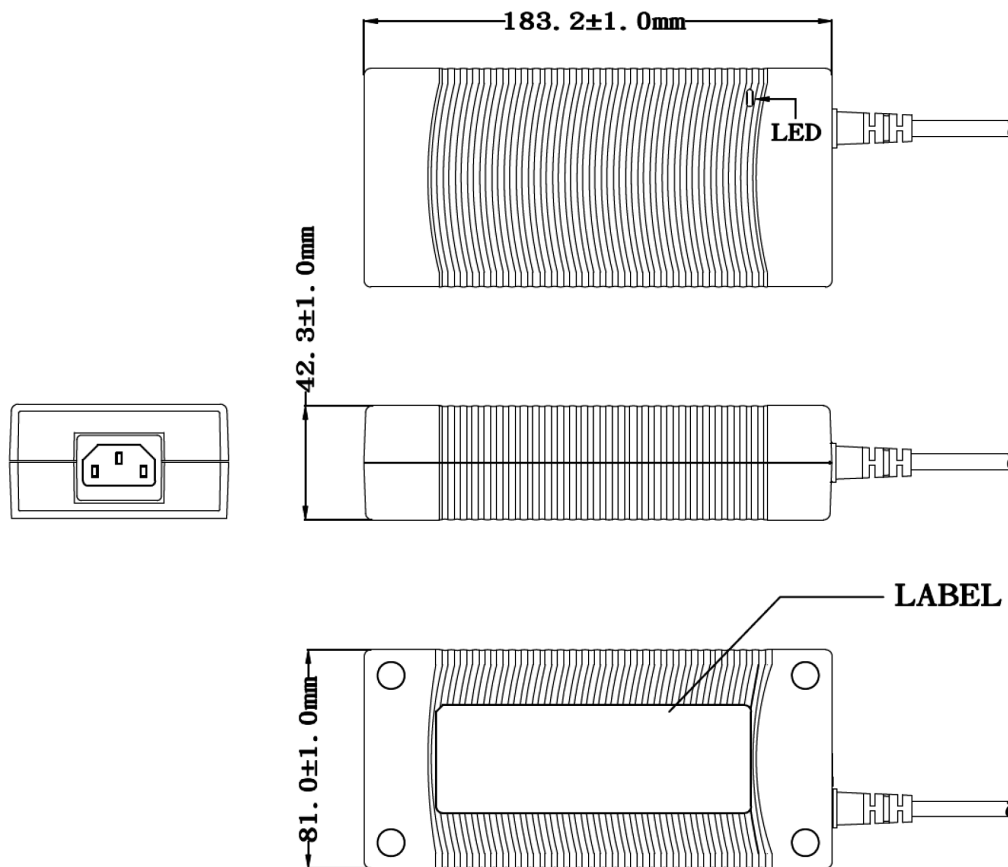
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		80	°C
operating humidity	non-condensing	20		80	%
storage humidity	non-condensing	10		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	183.2 x 81.0 x 42.3				mm
inlet plug	IEC320/C14				
weight	without ac cord		820		g

MECHANICAL DRAWING

units: mm
tolerance: ±1.0 mm



DC CORD

units: mm

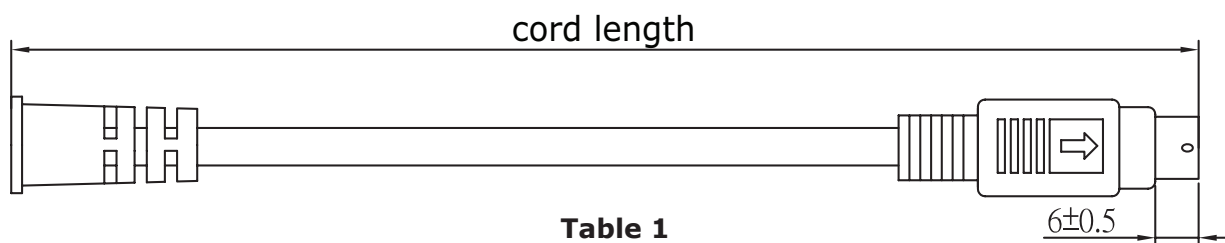
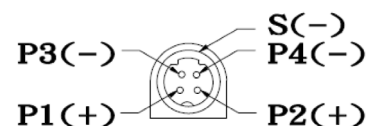


Table 1

MODEL NO.	CABLE	CORD LENGTH
SDI200-12-U	UL2464, 16 AWG, 4C	1,200 mm ±30
SDI200-13.5-U	UL2464, 16 AWG, 4C	1,200 mm ±30
SDI200-19-U	UL2464, 16 AWG, 4C	1,500 mm ±30
SDI200-24-U	UL2464, 16 AWG, 4C	1,500 mm ±30
SDI200-48-U	UL2464, 18 AWG, 4C	1,500 mm ±30
SDI200-56-U	UL2464, 18 AWG, 4C	1,500 mm ±30



AC CORD

units: mm

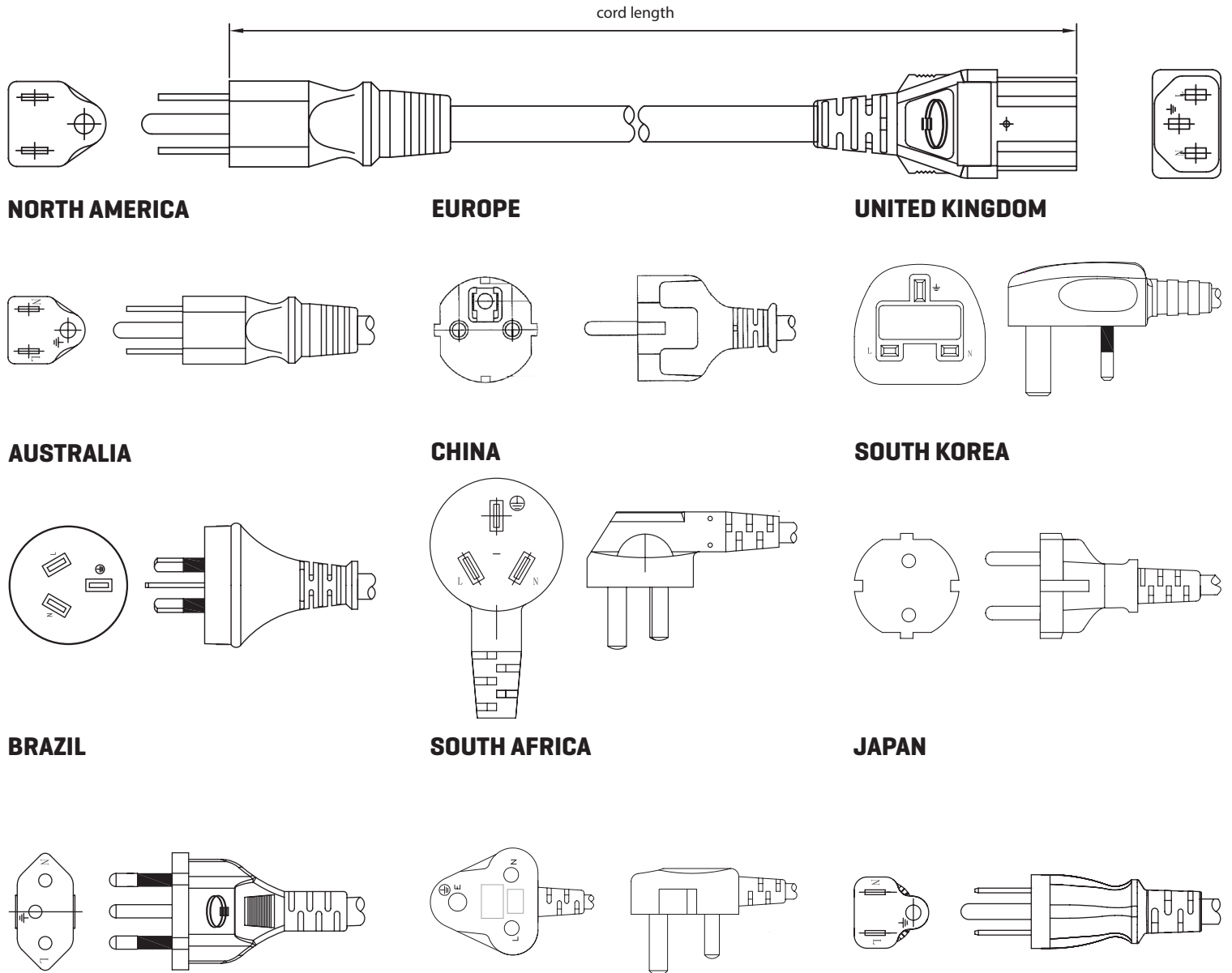


Table 2

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

rev.	description	date
1.0	initial release	08/28/2018
1.01	company logo updated	07/23/2020
1.02	UKCA added to specification	08/11/2021

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



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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.

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