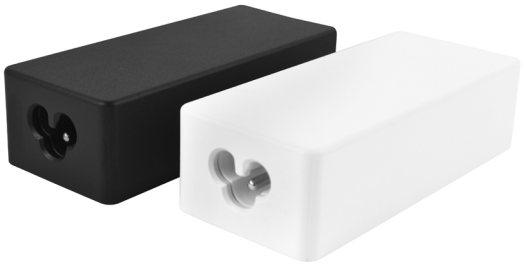
SERIES: SDI30C-UT | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- up to 30 W continuous power
- meets DoE Level VI efficiency
- universal input voltage range
- no load power consumption < 0.1 W
- over current and short circuit protections
- PD 3.0
- custom designs available

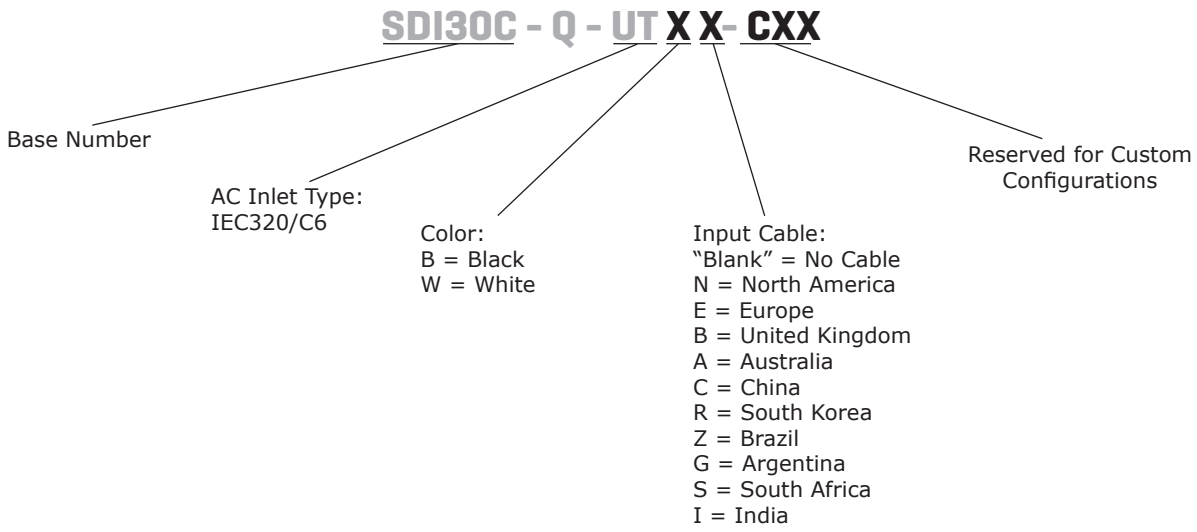


MODEL

MODEL	output voltage[1] (Vdc)	output current max (A)	output power max (W)	ripple and noise[2] max (mVp-p)	efficiency level
SDI30C-Q-UT	5	3	15	160	VI
	9	3	27	160	VI
	15	2	30	200	VI
	20	1.5	30	200	VI

Notes: 1. Output programmable via USB PD 3.0.
2. Measured at 100~240 Vac input, full load, 20 MHz bandwidth oscilloscope, output terminated with a 10 µF aluminum electrolytic and 0.1 µF ceramic capacitor.

PART NUMBER KEY



Please read our datasheet & drawing disclaimer here.

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				0.8	A
leakage current				0.25	mA
no load power consumption				0.1	W

OUTPUT

parameter	conditions/description	min	typ	max	units
load regulation	5 Vdc output model 9 Vdc output model 15 Vdc output model 20 Vdc output model		±7 ±6 ±5 ±5		% % % %
line regulation			±2		%
start-up time	at 115 Vac			3	s
rise time	at 115 Vac			40	ms
hold-up time	at 115 Vac	5			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over current protection	auto recovery	1.6		4	A
short circuit protection	continuous, auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 5 mA for 5 seconds		1,750		Vac
isolation resistance	input to output at 500 Vdc	50			MΩ
safety approvals	62368: UL/cUL UKCA				
EMI/EMC	EN55032, EN55013 class B FCC Part 15 Class B				
MTBF	at 25°C	50,000			hours
RoHS	yes				

ENVIRONMENTAL

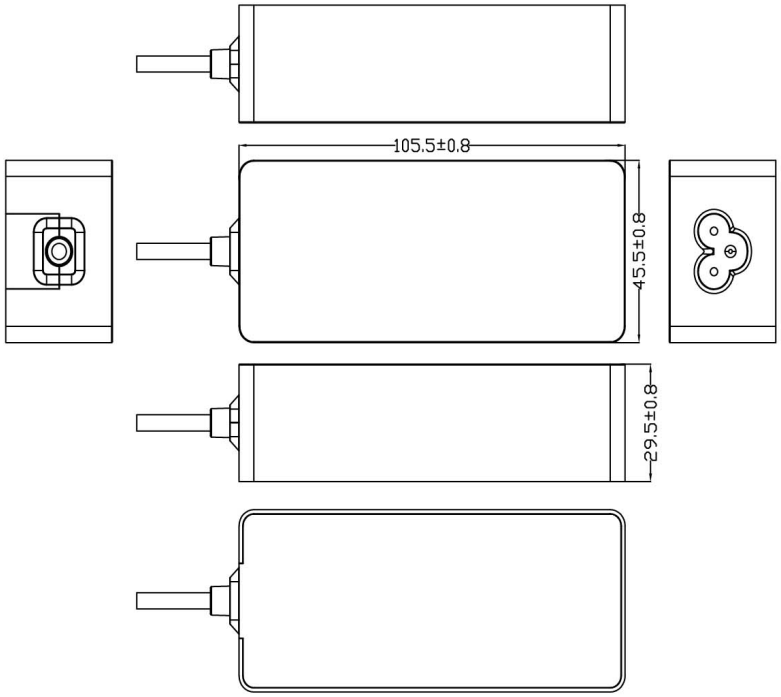
parameter	conditions/description	min	typ	max	units
operating temperature		0		25	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	5		95	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	105.5 x 45.5 x 29.5				mm
inlet plug	IEC320/C6				

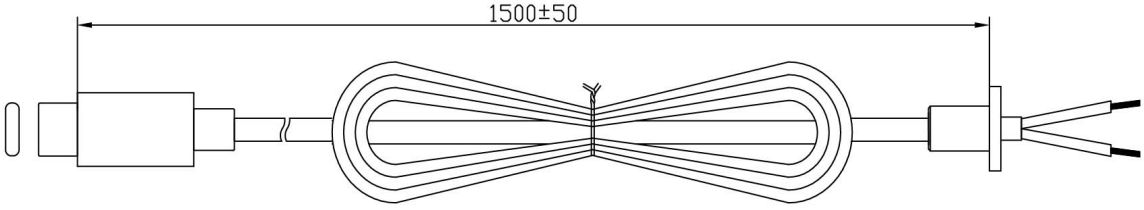
MECHANICAL DRAWING

units: mm



DC CORD

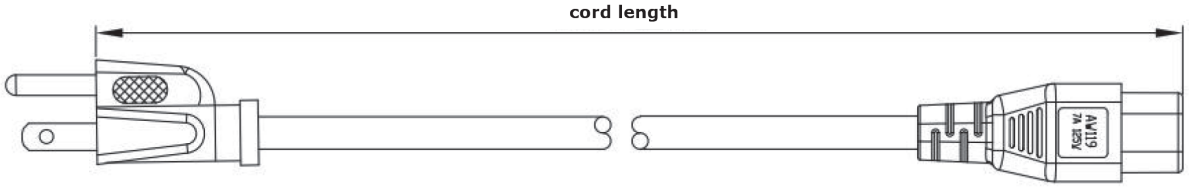
units: mm



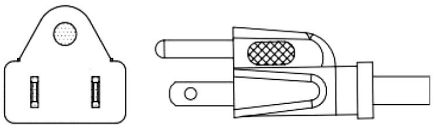
Cable: UL 2464, 20 AWG
Color: black

AC CORD

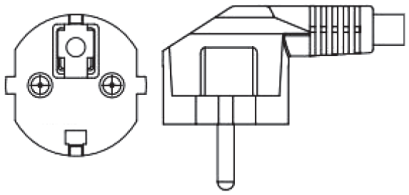
units: mm



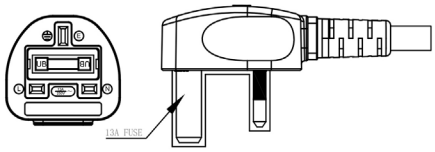
NORTH AMERICA



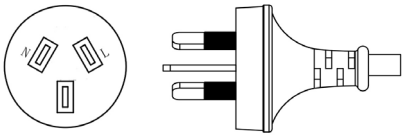
EUROPE



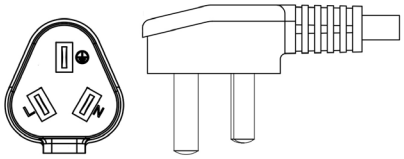
UNITED KINGDOM



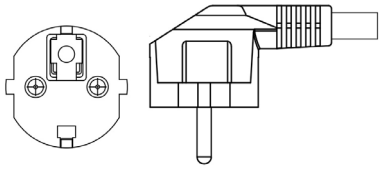
AUSTRALIA



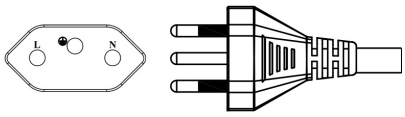
CHINA



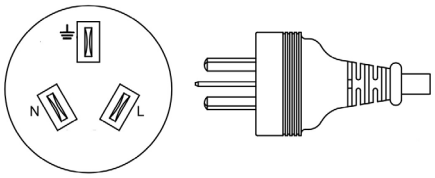
SOUTH KOREA



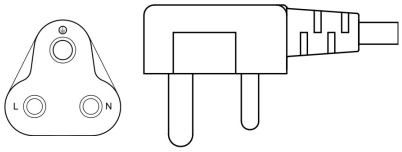
BRAZIL



ARGENTINA



SOUTH AFRICA



INDIA

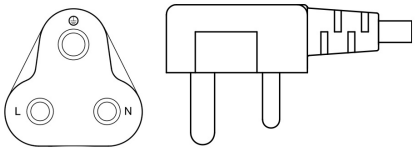


Table 2

AC INPUT	CORD LENGTH
North America	1,200 mm ±30
Europe	1,200 mm ±30
United Kingdom	1,200 mm ±30
Australia	1,200 mm ±30
China	1,200 mm ±30
South Korea	1,200 mm ±30
Brazil	1,200 mm ±50
Argentina	1,200 mm ±50
South Africa	1,200 mm ±50
India	1,200 mm ±50

REVISION HISTORY

rev.	description	date
1.0	initial release	12/14/2021
1.01	cUL Energy Verified approval symbol removed	01/28/2022
1.03	ac plugs added	06/15/2022
1.04	operating temperature udpated	06/15/2023
1.05	features updated	05/21/2025

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

CUI INC
a bel group

15575 SW Sequoia Pkwy #100
Portland, OR 97224
800.275.4899

Fax 503.612.2383
Belfuse.com
Tech.Support@psbel.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.