SERIES: SDI65G-D | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- up to 65 W continuous power
- Gallium nitride (GaN) technology
- USB power delivery (PD 3.0)
- universal input
- over current and short circuit protection
- certified to IEC 62368-1
- compact design
- custom design available

GaN

MODEL

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level
SDI65G-P-D	5	3.0	15	100	VI
	9	3.0	27	180	VI
	12	3.0	36	240	VI
	15	3.0	45	300	VI
	20	3.25	65	360	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

SDI65G-P-D X X - CXX

- Base Number
- AC Inlet Type: IEC320/C8
- Input Cable:
  "blank" = no cable
  C = North America input cable
  2 = Europe input cable
  3 = United Kingdom input cable
  4 = Australia input cable
  5 = China input cable
  6 = South Korea input cable
  7 = Brazil input cable
  8 = South Africa input cable
  9 = Japan input cable
- Color:
  "blank" = Black
  W = White
- Reserved for Custom Configurations

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90	100~240	264	Vac
frequency		47	50~60	63	Hz
current	at 230 Vac, full load			0.8	A
inrush current	at 230 Vac, full load, cold start			80	A
leakage current	at 240 Vac /50 Hz			0.25	mA
no load power consumption				0.1	W

OUTPUT

parameter	conditions/description	min	typ	max	units
load regulation	5 Vdc output		+6/-4		%
	9 Vdc output		±5		%
	12 Vdc output		±5		%
	15 Vdc output		±5		%
	20 Vdc output		±5		%
line regulation			±1		%
start-up time	0% ~ 90% of rated output voltage			3	s
rise time	5V ~ 90% of output voltage			0.275	s
hold-up time		8.3			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	continuous, hiccup				
	5 Vdc output	3.3		4.5	A
	9 Vdc output	3.3		4.5	A
	12 Vdc output	3.3		4.5	A
	15 Vdc output	3.3		4.5	A
	20 Vdc output	3.5		4.8	A
short circuit protection	continuous, auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output for 2 seconds, 10 mA max		3,000		Vac
safety approvals	certified to 62368-1: EN				
EMI/EMC	EN 55032 Class B FCC PART 15 Class B				
ESD	IEC 61000-4-2, contact ±4 kV, air ±8 kV				
radiated immunity	IEC 61000-4-3, 1KHz field strength: 3 V/M				
EFT/burst	IEC 61000-4-4, 1.0 kV on input AC power ports				
surge	IEC 61000-4-5, line to line ± 1kV (peak)				
MTBF	as per MIL-HDBK-217F, at 25°C	100,000			hours
RoHS	yes				

ENVIRONMENTAL

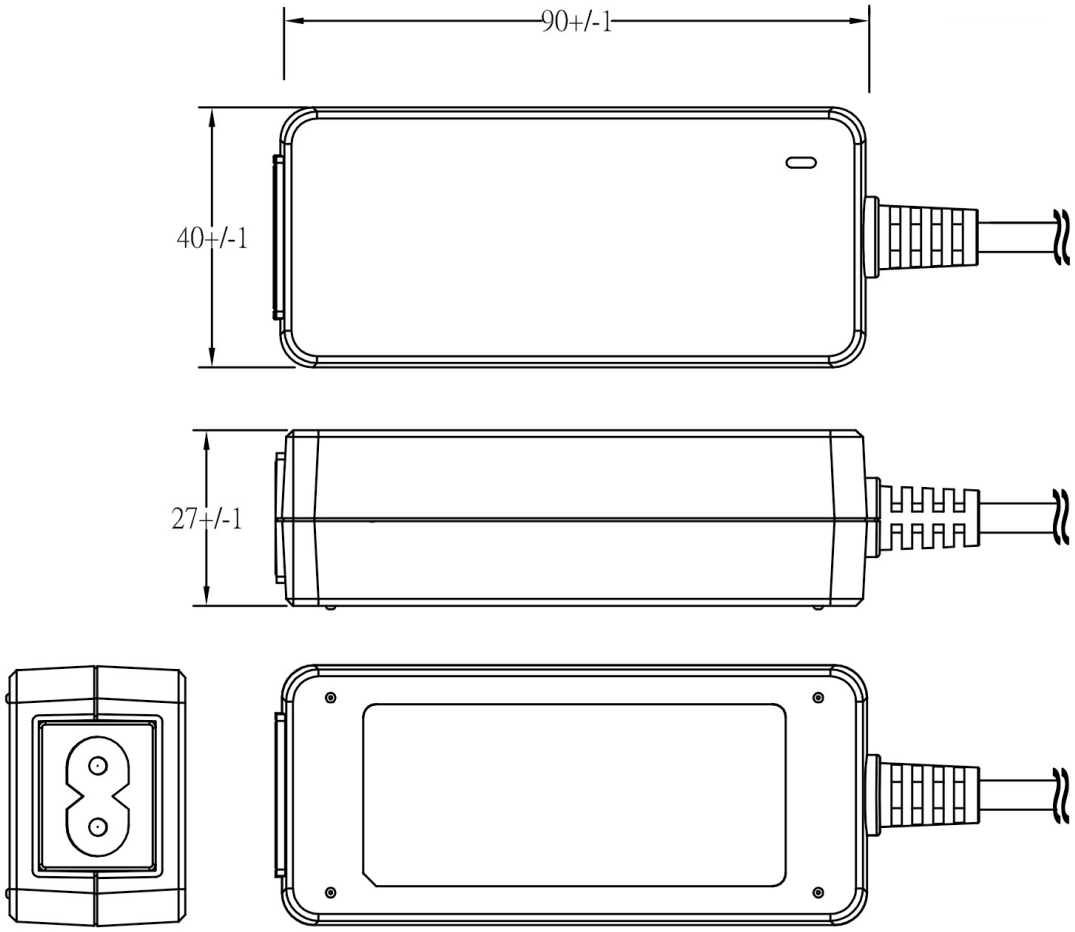
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		85	°C
operating humidity	non-condensing	10		90	%
storage humidity	non-condensing	5		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	90 x 40 x 27				mm
inlet plug	IEC320/C8				
weight	without ac cord		300		g

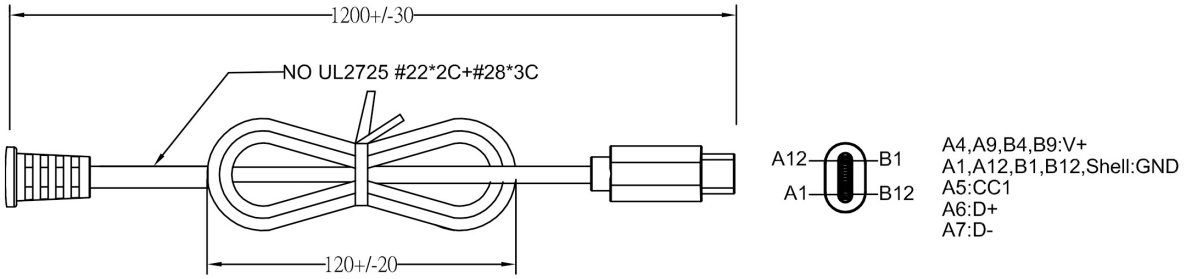
MECHANICAL DRAWING

units: mm
tolerance: ±1.0 mm

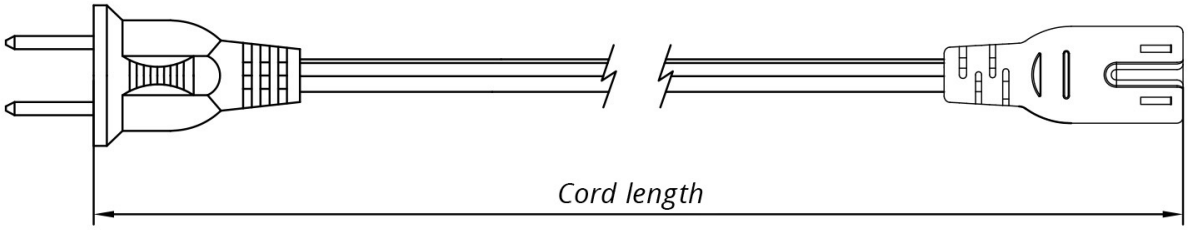


DC CORD

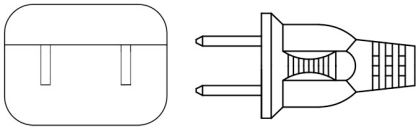
units: mm



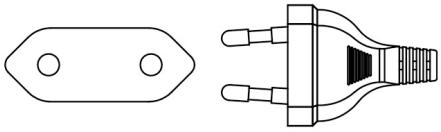
AC CORD (US)



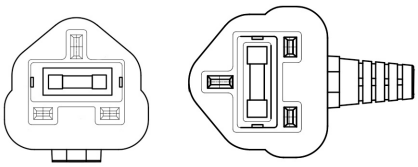
NORTH AMERICA



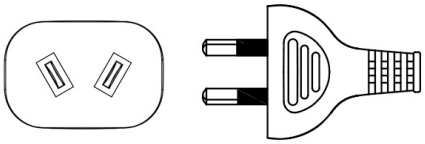
EUROPE



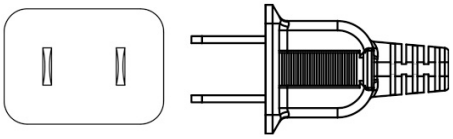
UNITED KINGDOM



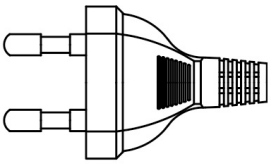
AUSTRALIA



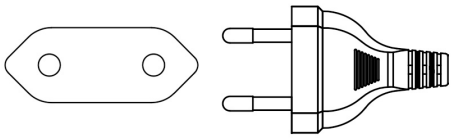
CHINA



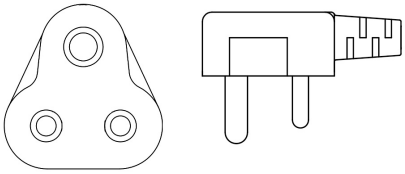
SOUTH KOREA



BRAZIL



SOUTH AFRICA



JAPAN

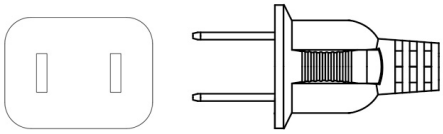


Table 1

AC INPUT	CORD LENGTH
North America	1,830 mm ±50
Europe	1,830 mm ±50
United Kingdom	1,830 mm ±50
Australia	1,830 mm ±50
China	1,830 mm ±50
South Korea	1,830 mm ±50
Brazil	1,830 mm ±50
South Africa	1,830 mm ±50
Japan	1,830 mm ±50

REVISION HISTORY

rev.	description	date
1.0	initial release	04/24/2025

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

CUI INC
a bel group

Headquarters
15575 SW Sequoia Pkwy #100
Portland, OR 97224
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com