

date 04/24/2025

page 1 of 5

SERIES: SDI65G-T | 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







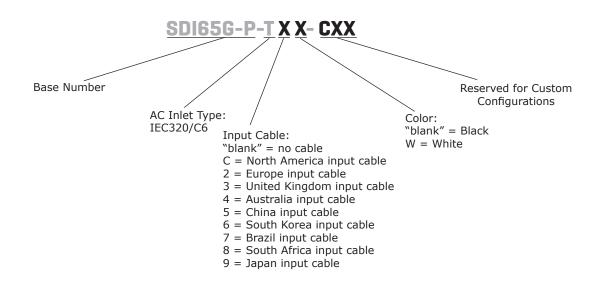




MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise¹ max (mVp-p)	efficiency level
	5	3.0	15	100	VI
	9	3.0	27	180	VI
SDI65G-P-T	12	3.0	36	240	VI
	15	3.0	45	300	VI
	20	3.25	65	360	VI

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



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	А
inrush current	at 230 Vac, full load, cold start			80	А
leakage current	at 240 Vac /50 Hz			0.25	mA
no load power consumption				0.1	W

OUTPUT

conditions/description	min	typ	max	units
5 Vdc output		+6/-4		%
9 Vdc output		±5		%
12 Vdc output		±5		%
15 Vdc output		±5		%
20 Vdc output		±5		%
		±1		%
0% ~ 90% of rated output voltage			3	S
5V ~ 90% of output voltage			0.275	S
	8.3			ms
	5 Vdc output 9 Vdc output 12 Vdc output 15 Vdc output 20 Vdc output 0% ~ 90% of rated output voltage	5 Vdc output 9 Vdc output 12 Vdc output 15 Vdc output 20 Vdc output 0% ~ 90% of rated output voltage 5V ~ 90% of output voltage	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

PROTECTIONS

parameter	conditions/description	min	typ	max	units
	continuous, hiccup				
	5 Vdc output	3.3		4.5	Α
	9 Vdc output	3.3		4.5	Α
over voltage protection	12 Vdc output	3.3		4.5	Α
	15 Vdc output	3.3		4.5	Α
	20 Vdc output	3.5		4.8	Α
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 \pm 1kV (peak)				
MTBF	as per MIL-HDBK-217F, at 25°C	100,000			hours
RoHS	yes				

ENVIRONMENTAL

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

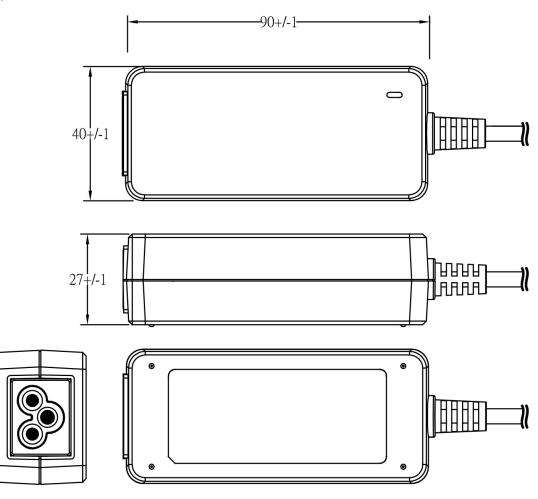
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	90 x 40 x 27				mm
inlet plug	IEC320/C6				
weight	without ac cord		300		g

MECHANICAL DRAWING

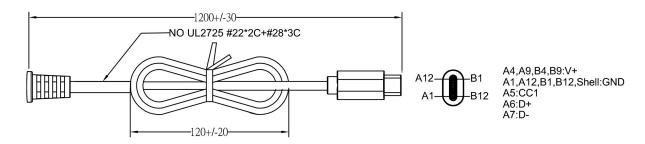
units: mm

tolerance: ±1.0 mm

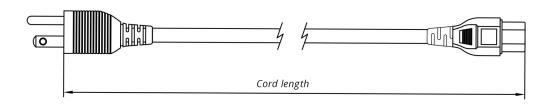


DC CORD

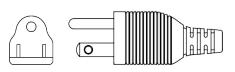
units: mm



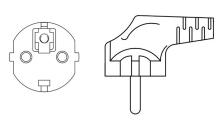
AC CORD (US)



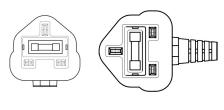
NORTH AMERICA



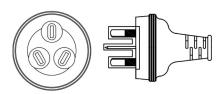
EUROPE



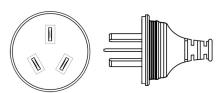
UNITED KINGDOM



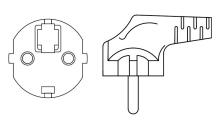
AUSTRALIA



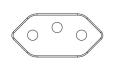
CHINA

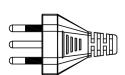


SOUTH KOREA

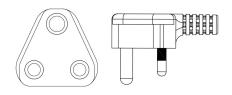


BRAZIL





SOUTH AFRICA



JAPAN

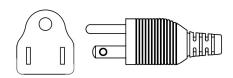


Table 1

AC INPUT	CORD LENGTH
North America	1,830 mm ±30
Europe	1,830 mm ±30
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.



Headquarters 15575 SW Sequoia Pkwy #100 Fax 503.612.2383 Portland, OR 97224 800.275.4899

cui.com techsupport@cui.com

CUI offers a two (2) 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.