

SERIES: SDI160G-U | **DESCRIPTION:** AC-DC POWER SUPPLY

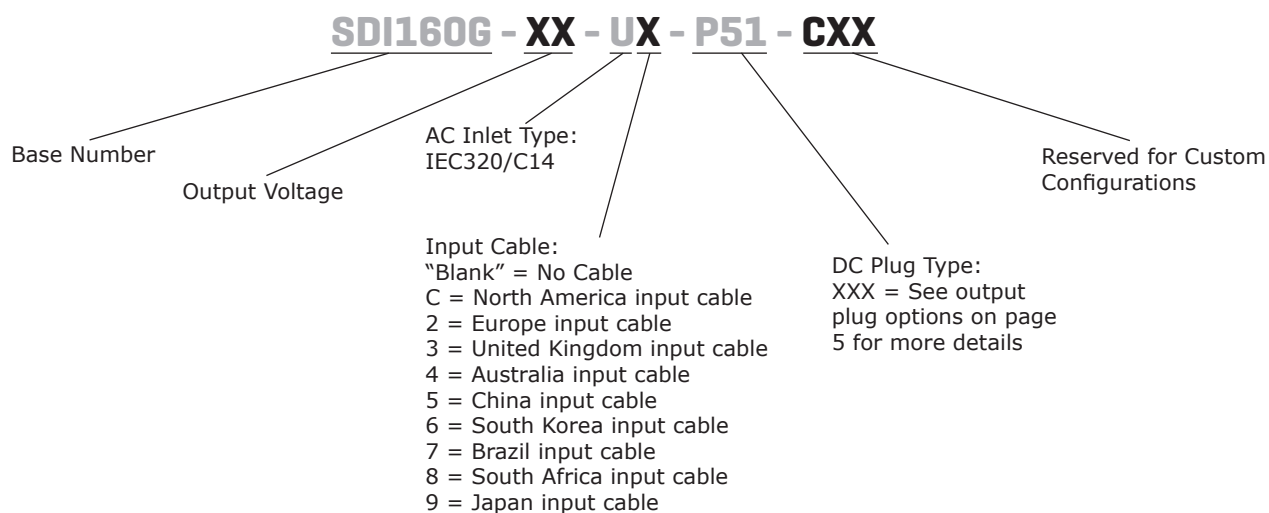
FEATURES

- up to 160 W continuous power
- gallium nitride (GaN) technology
- universal input (90~264 Vac)
- over voltage, over current and short circuit protections
- IEC 62368-1 compliant
- power factor correction
- compact design
- custom design available



MODEL	output voltage	output current max	output power max	ripple and noise ¹ max	efficiency ² typ
	(Vac)	(A)	(W)	(mVp-p)	(%)
SDI160G-12-U-P51	12	12.5	150	120	90
SDI160G-19-U-P51	19	8.4	160	190	90
SDI160G-24-U-P51	24	6.6	160	240	90
SDI160G-48-U-P51	48	3.3	160	480	90
SDI160G-56-U-P51	56	2.86	160	560	90

Notes: 1. Ripple & noise measurement, use a 20 MHz bandwidth frequency oscilloscope and add 0.1 μ F ceramic and 10 μ F electrolytic capacitor at output terminals.
 2. Average efficiency measured at 25, 50, 75 & 100% load.

PART NUMBER KEY


INPUT

parameter	conditions/description	min	typ	max	units
voltage		100		240	Vac
frequency		50		60	Hz
current	at full load			2.2	A
inrush current	at 230 Vac, full load, 25°C, cold start			100	A
leakage current				3.5	mA
power factor correction	at 115 Vac & 230 Vac, at full load	0.9			
no load power consumption	at 115 Vac, 230 Vac & no load			0.15	W
input fuse					

OUTPUT

parameter	conditions/description	min	typ	max	units
regulation				5	%

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	shut down, latch			180	%
over current protection	shut down, auto recover			180	%
short circuit protection	shut down, auto recover				%

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output	3000			Vac
isolation resistance	primary to secondary, 500 Vdc	10			MΩ
safety approvals	UL & CUL, UKCA				
EMI/EMC	CE / FCC Class B				
MTBF	as per Telcordia SR-332, 25°C	300,000			hours

ENVIRONMENTAL

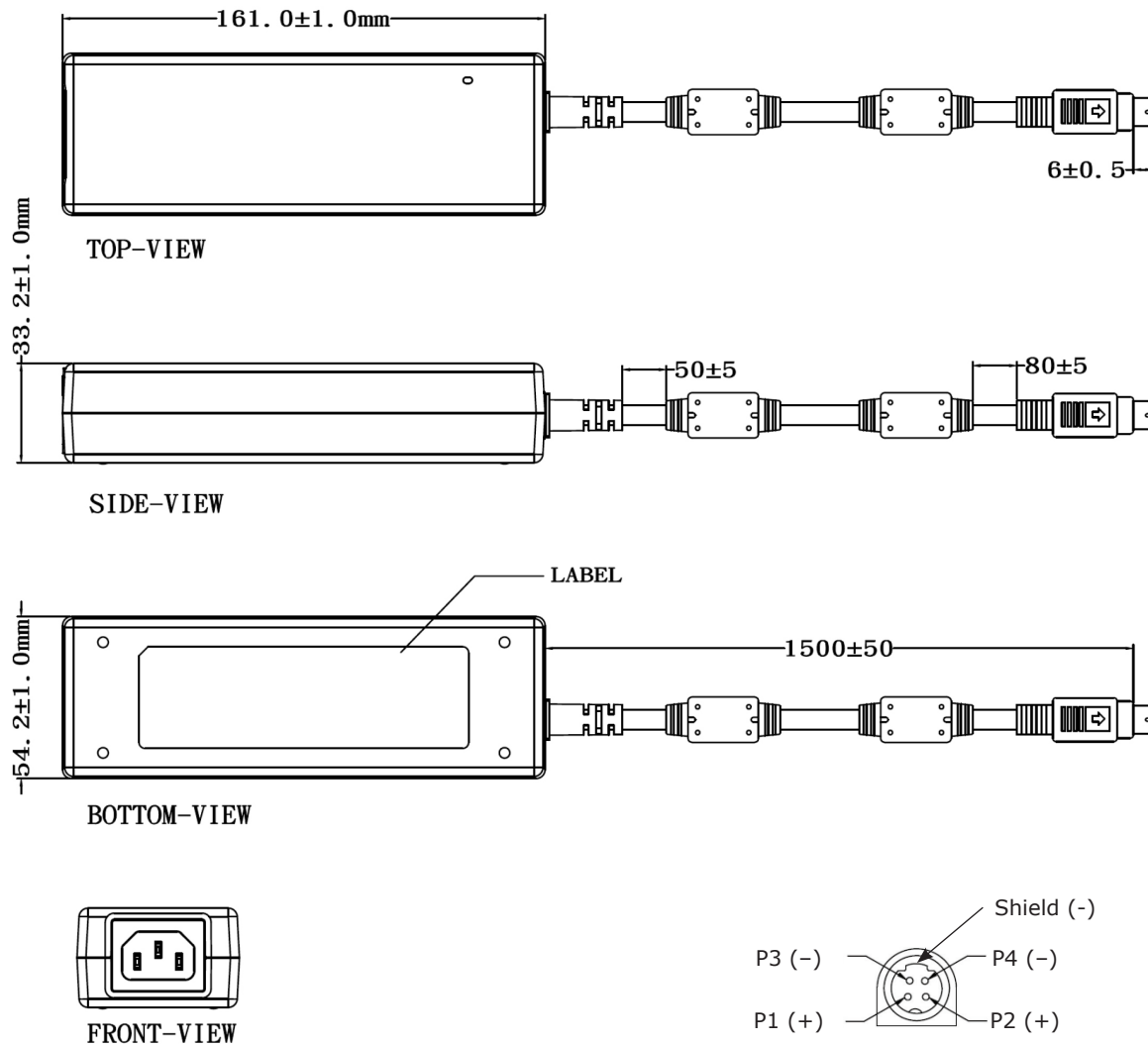
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		80	°C
operating humidity	non-condensing	20		80	%
storage humidity	non-condensing	10		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	161.0 x 54.2 x 33.2				mm
weight			530		g

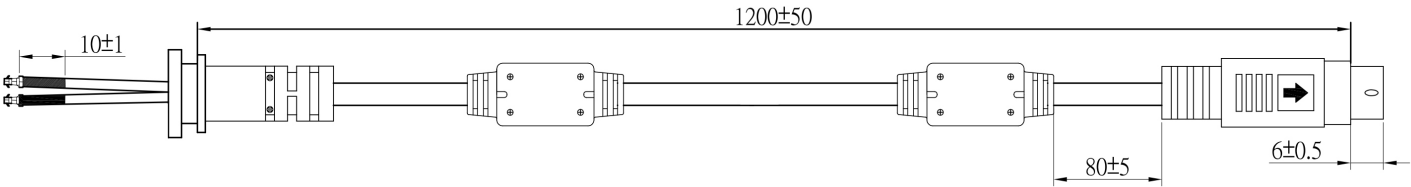
MECHANICAL DRAWING

units: mm

tolerance: ± 1.0 mm

DC CORD

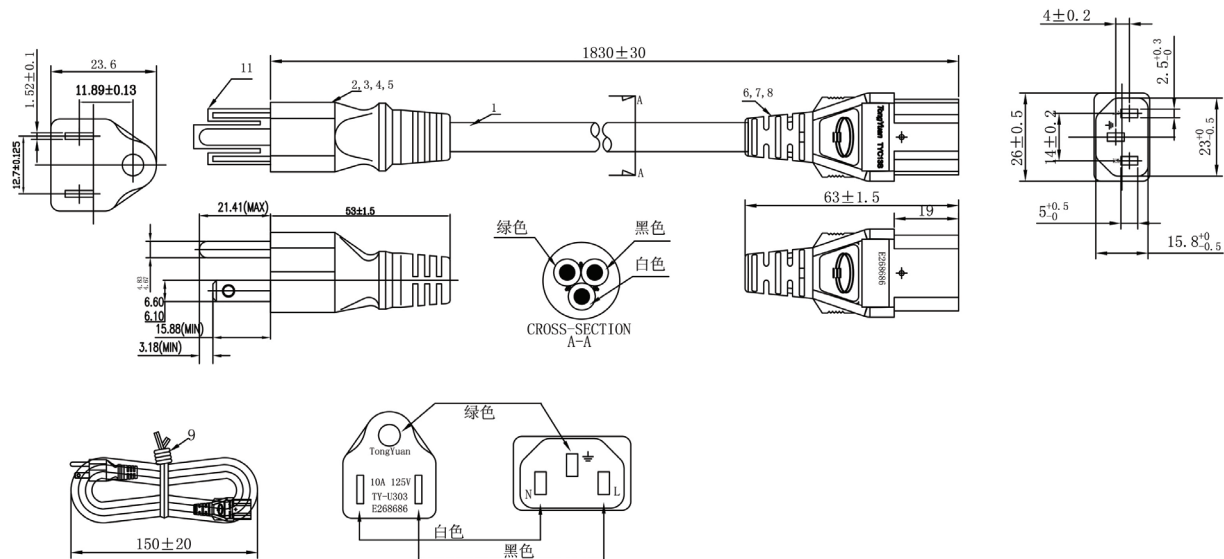
units: mm



MODEL NO.	CABLE	CORD LENGTH
SDI160G-12	UL2464, 16 AWG	1,200 mm ±50
SDI160G-19	UL2464, 16 AWG	1,500 mm ±50
SDI160G-24	UL2464, 16 AWG	1,500 mm ±50
SDI160G-48	UL2464, 16 AWG	1,500 mm ±50
SDI160G-56	UL2464, 16 AWG	1,500 mm ±50

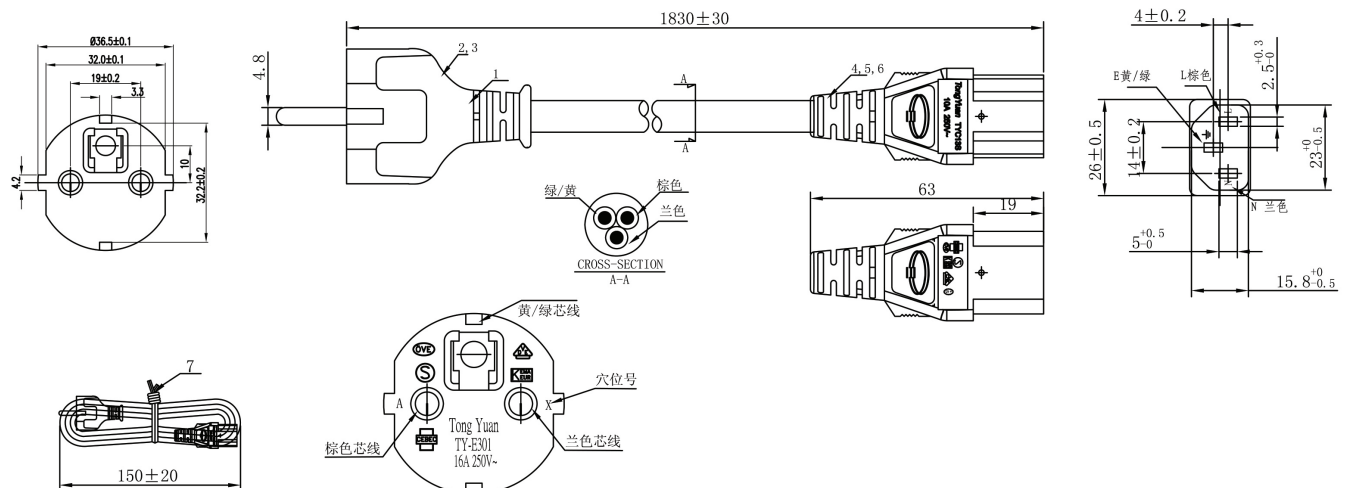
AC CORD [US]

units: mm



AC CORD [EU]

units: mm



REVISION HISTORY

rev.	description	date
1.0	initial release	06/12/2020
1.01	drawing tolerance updated	06/16/2020
1.02	UKCA added to the specification	05/25/2021
1.03	dc cord updated	06/15/2021

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



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