

SERIES: SWC27-N | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

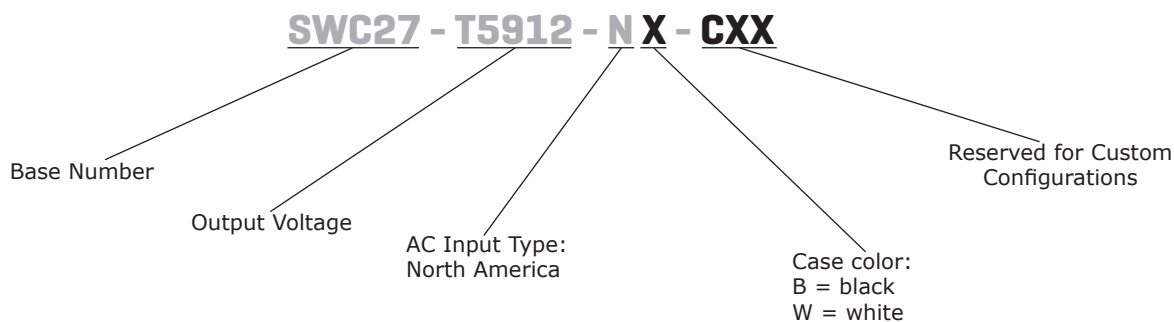
- up to 27 W power
- compact design
- DoE Level VI compliant
- UL/cUL and PSE safety approvals
- universal input voltage range
- USB type C inlet
- power delivery (PD) 3.0



MODEL	output voltage	output current max	output power max	ripple and noise ¹ max	efficiency level ²
	(Vdc)	(A)	(W)	(mVp-p)	
SWC27-T5912-N	5	3	15	200	VI
	9	3	27	200	VI
	12	2.25	27	200	VI

Notes: 1. At full load, nominal AC input voltage, 25°C, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF ceramic and 10 µF aluminum 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	at 100 Vac			0.7	A
inrush current	at 240 Vac, cold start, 25°C			100	A
leakage current	at max input voltage, full load			0.25	mA
no load power consumption	at 115/230 Vac			0.075	W

OUTPUT

parameter	conditions/description	min	typ	max	units
voltage accuracy	5 Vdc output	4.75		5.5	Vdc
	9 Vdc output	8.55		9.45	Vdc
	12 Vdc output	11.4		12.6	Vdc
line regulation			±2		%
load regulation			±5		%
start-up time				3	s
hold-up time	at 115/230 Vac, 60/50 Hz, full load	5			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	output shut down, auto recovery			16	Vdc
over current protection	output shut down, auto recovery			150	%
short circuit protection	output shut down, auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 3.5 mA for 1 minute		4,242		Vdc
insulation resistance	input to output at 500 Vdc for 1 minute	50			MΩ
safety approvals	UL/cUL (UL 60950-1), PSE				
EMI/EMC	FCC Part 15 Class B, EN 55032 Class B				
MTBF	as per MIL-HDBK-217F, full load, 25°C	50,000			hours
RoHS	yes				

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	10		90	%
storage humidity	non-condensing	5		90	%
altitude				5,000	m

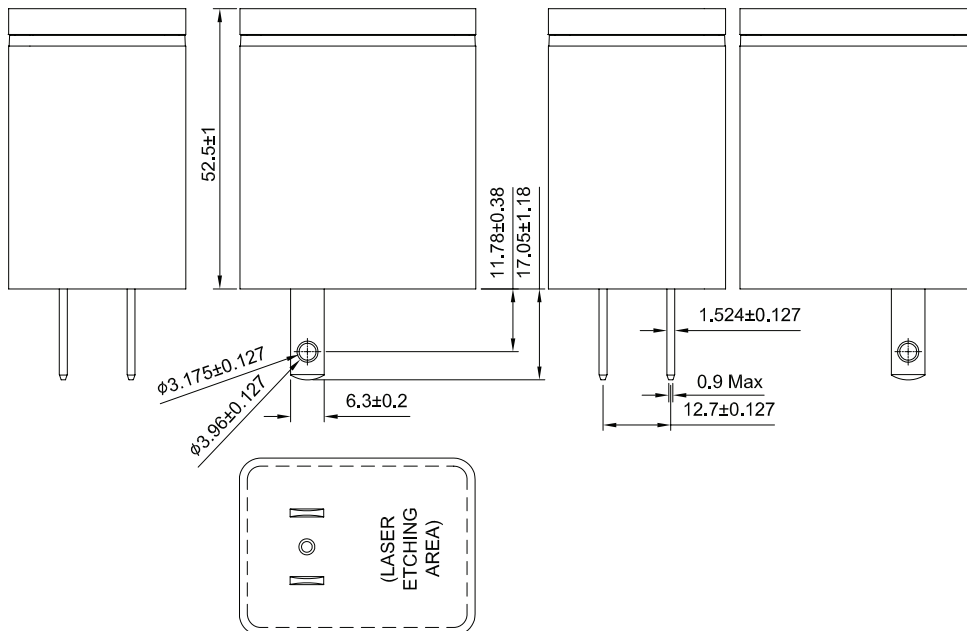
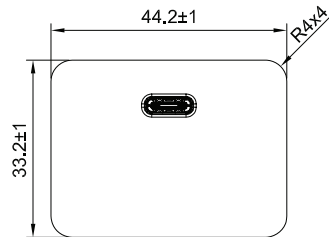
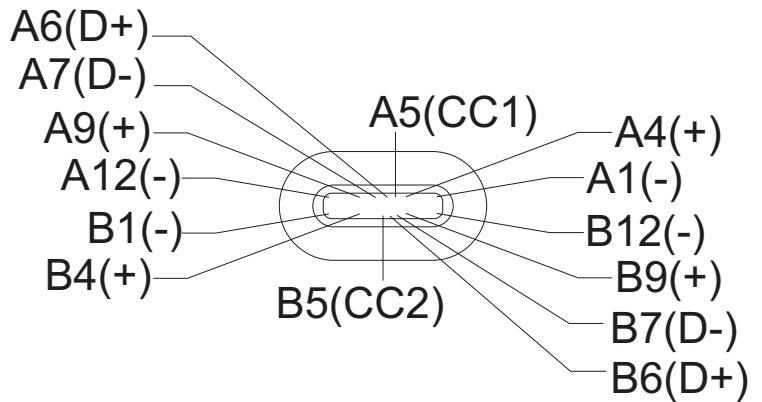
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	44.2 x 33.2 x 52.5				mm
inlet plug	North America, 2-pin				
DC output	USB 3.1 Type C				
weight			89		g

MECHANICAL DRAWING

units: mm

PIN CONNECTIONS			
PIN	SIGNAL NAME	PIN	SIGNAL NAME
A1	GND	B12	GND
A2	NC	B11	NC
A3	NC	B10	NC
A4	V _{BUS}	B9	V _{BUS}
A5	CC1	B8	CC2
A6	D+	B7	D+
A7	D-	B6	D-
A8	NC	B5	NC
A9	V _{BUS}	B4	V _{BUS}
A10	NC	B3	NC
A11	NC	B2	NC
A12	GND	B1	GND



REVISION HISTORY

rev.	description	date
1.0	initial release	08/23/2018
1.01	company logo updated	09/30/2020
1.02	safety marks updated	04/26/2021

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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