

**SERIES:** SWC15-N | **DESCRIPTION:** AC-DC POWER SUPPLY

**FEATURES**

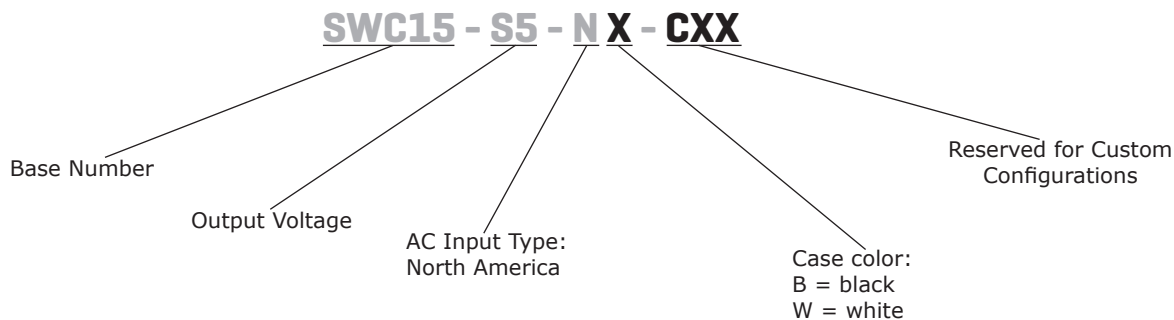
- up to 15 W power
- compact design
- DoE Level VI compliant
- UL/cUL and PSE safety approvals
- universal input voltage range
- USB type C inlet



<b>MODEL</b>	<b>output voltage</b> (Vdc)	<b>output current max</b> (A)	<b>output power max</b> (W)	<b>ripple and noise<sup>1</sup> max</b> (mVp-p)	<b>efficiency level<sup>2</sup></b>
SWC15-S5-N	5	3	15	150	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			0.5	A
inrush current	at 240 Vac, cold start, 25°C			60	A
leakage current	at max input voltage, full load			0.1	mA
no load power consumption	at 115/230 Vac			0.075	W

## OUTPUT

parameter	conditions/description	min	typ	max	units
voltage accuracy		4.75		5.25	Vdc
line regulation			±2		%
load regulation			±5		%
start-up time				3	s
hold-up time	at 115/230 Vac, 60/50 Hz, full load	10			ms

## PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	output shut down, auto recovery			9	Vdc
over current protection	output shut down, auto recovery			130	%
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

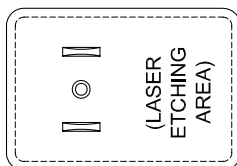
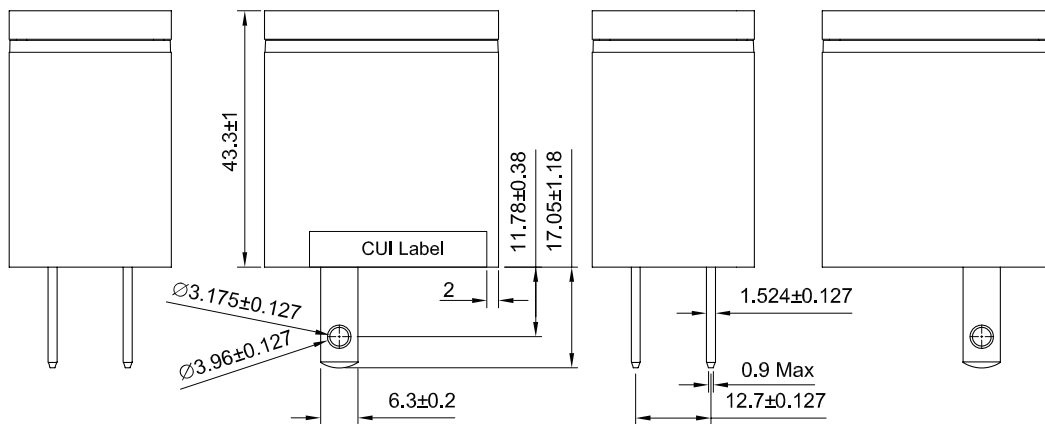
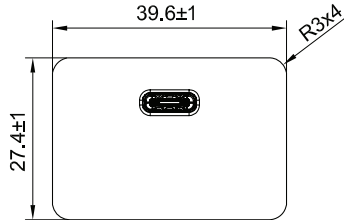
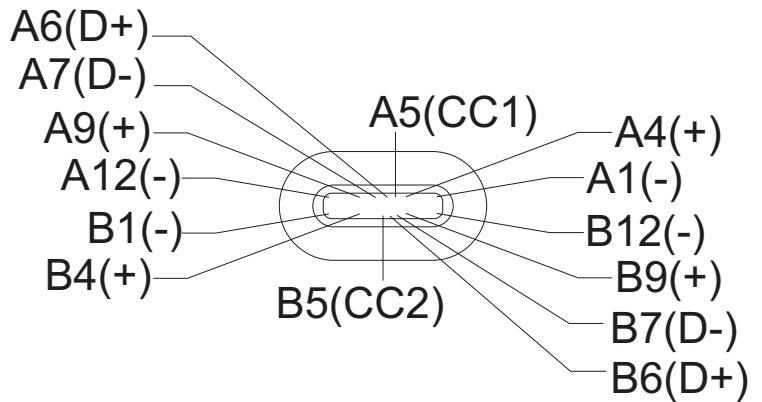
## MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	39.6 x 27.4 x 43.3				mm
inlet plug	North America, 2-pin				
DC output	USB 3.1 Type C				
weight			47		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 <sub>BUS</sub>	B9	V <sub>BUS</sub>
A5	CC1	B8	CC2
A6	D+	B7	D+
A7	D-	B6	D-
A8	NC	B5	NC
A9	V <sub>BUS</sub>	B4	V <sub>BUS</sub>
A10	NC	B3	NC
A11	NC	B2	NC
A12	GND	B1	GND



## REVISION HISTORY

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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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