SERIES: SWI20C-N | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- USB PD 3.0; 5V, 15W; 9V, 20W; 12V, 20W
- North America fixed blade input
- USB Type-C output connector
- black or white case
- certified to UL 62368-1, LPS
- certified to J55032, FCC
- 90~264 Vac input
- 0~40 °C operating temperature
- overcurrent, overvoltage, and short circuit protection
- USB PPS 3.3~11 Vdc

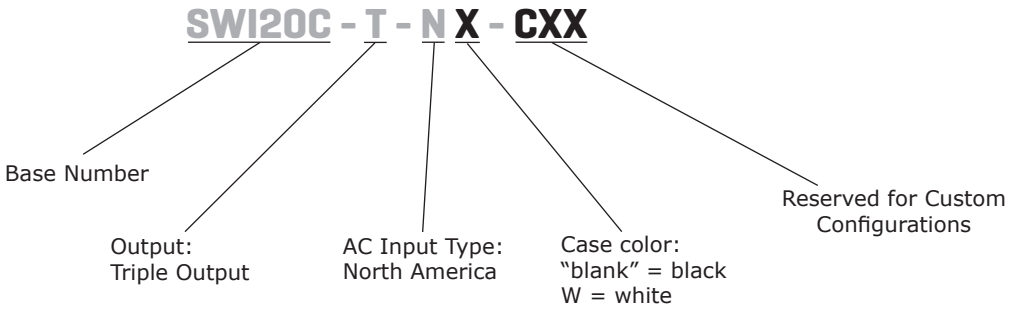


MODEL

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level[2] typ (%)
SWI20C-N	5	3.0	15	300	82
	9	2.22	20	300	86
	12	1.66	20	300	86

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, each output terminated with 0.1 µF multilayer ceramic and 10 µF low ESR electrolytic capacitors.
2. Testing at 100%, 75%, 50%, 25% of rated current output and then computing the arithmetic average of these four values.
The efficiency measurement at cable end with 2468 AWG 18, 30 min at full load.

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90	100~240	264	Vac
frequency		47	50~60	63	Hz
current				0.6	A
leakage current				0.25	mA
no load power consumption	at 230 Vac, 50 Hz			0.075	W

OUTPUT

parameter	conditions/description	min	typ	max	units
regulation			±5		%
start-up time				3	s
rise time	at 90 ~ 264 Vac input voltage			300	ms
hold-up time	at full load	5			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	5 Vdc output 9 Vdc output 12 Vdc output			10 16 16	Vdc Vdc Vdc
over current protection	5 Vdc output 9 Vdc output 12 Vdc output			4.5 3.3 2.5	A A A
short circuit protection	auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 1 minute		3,000 4,242		Vac Vdc
isolation resistance	input to output at 500 Vdc	20			MΩ
safety class	class II, LPS				
safety approvals	certified to 62368-1: UL/CUL certified to J62368-1: PSE				
EMI/EMC	certified to FCC (PART 15 CLASS B, ICES-003 Issue 7 Class B), PSE (J55032)				
MTBF	as per Telcordia SR-332 (Issue 2), 25°C	50,000			hours
RoHS	yes				

ENVIRONMENTAL

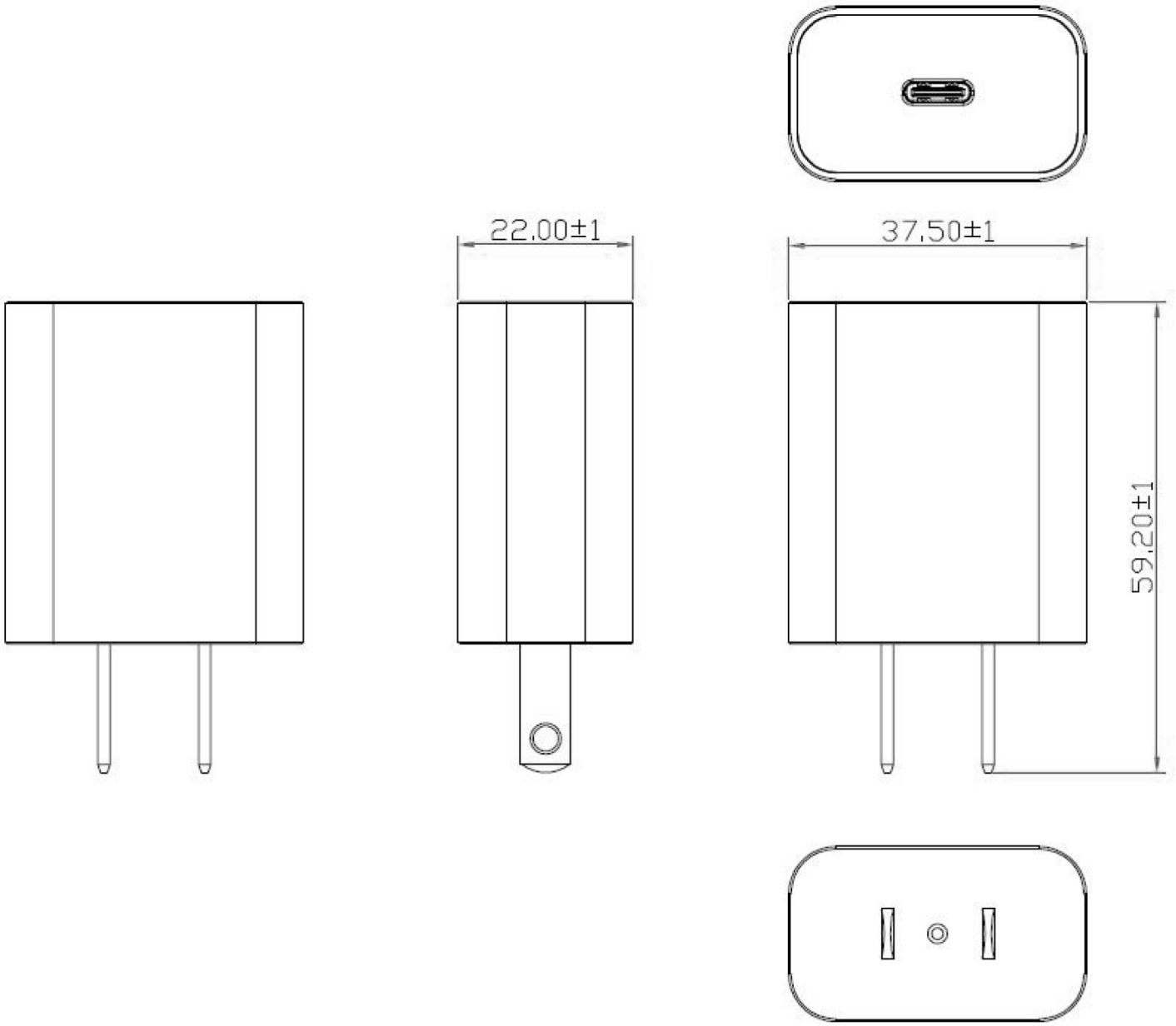
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	5		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	60.2 x 38.5 x 23				mm
inlet plug	North America, 2-pin				
weight			43		g

MECHANICAL DRAWING

units: mm
tolerance: ±1.0 mm



REVISION HISTORY

rev.	description	date
1.0	initial release	09/19/2023
1.01	safeties updated	10/08/2024
1.02	datasheet updated	12/09/2024

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.

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.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.