SERIES: SWI10B-N-USB | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

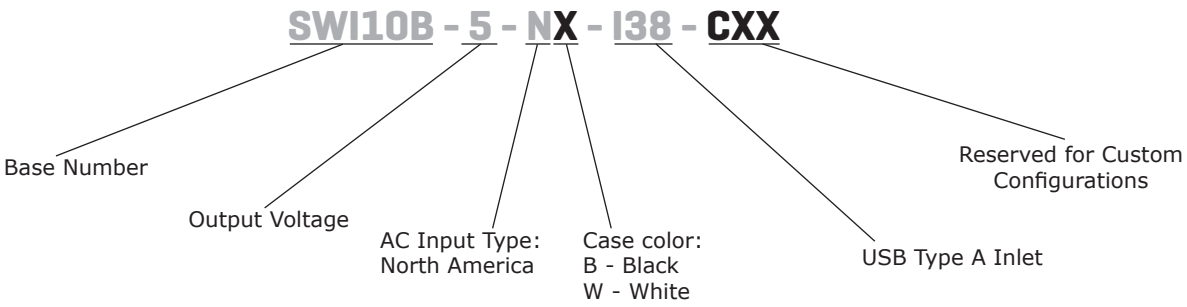
- up to 10 W continuous power
- DoE Level VI efficiency
- universal input voltage range
- ultra-compact case
- no load power consumption < 0.075 W
- over voltage, over current, and short circuit protections
- UL/cUL & FCC safety approvals
- certified to IEC 62368-1
- Class II construction
- black and white case options available



MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level
SWI10B-5-NX-I38	5	2	10	300	VI

Notes: 1. At full load, 25°C, at 115/230 Vac input, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF and 10 µF capacitors.

PART NUMBER KEY



Please read our datasheet & drawing disclaimer here.

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90	100~240	264	Vac
frequency		47	50~60	63	Hz
current	at nominal input voltage			0.3	A
leakage current	at nominal input voltage & frequency			0.25	mA
no load power consumption	at 115/230 Vac			0.075	W

OUTPUT

parameter	conditions/description	min	typ	max	units
regulation			±5		%
start-up time	at nominal input voltage			3	s
rise time	at nominal input voltage			100	ms
hold up time		5			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection				10	Vdc
over current protection	output shut down, auto recovery			3.0	A
short circuit protection	yes				

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
safety approvals	certified to 62368-1: IEC UL/cUL				
EMI/EMC	FCC				
MTBF	as per Telcordia SR-332 (Issue 2), at 115/230 Vac, full load, 0°C~40°C	50,000			hours
RoHS	yes				

ENVIRONMENTAL

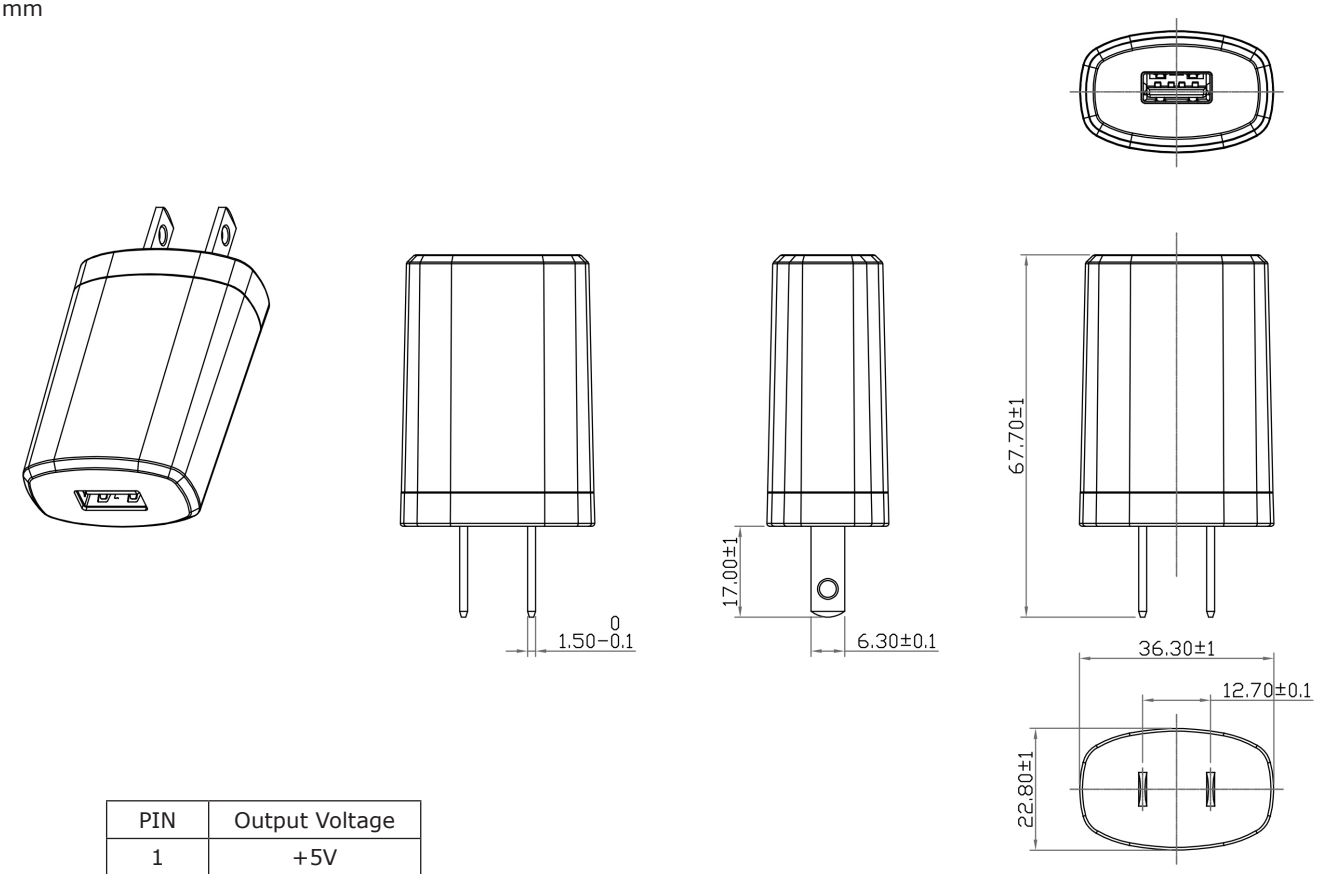
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	5		95	%

MECHANICAL

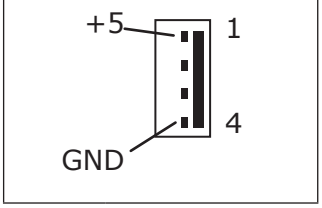
parameter	conditions/description	min	typ	max	units
dimensions	68.7 x 37 x 23.5				mm
inlet plug	North America, 2-pin				
weight			32		g

MECHANICAL DRAWING

units: mm



PIN	Output Voltage
1	+5V
2	Short
3	Short
4	GND



REVISION HISTORY

rev.	description	date
1.0	initial release	06/01/2020
1.01	datasheet updated	12/09/2024

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

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CUI offers a two (2) year limited warranty. Complete warranty information is listed on our website.

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