SERIES: SWI10B-E-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
- CE safety approval
- certified to IEC 62368-1
- Class II construction
- black and white case options available



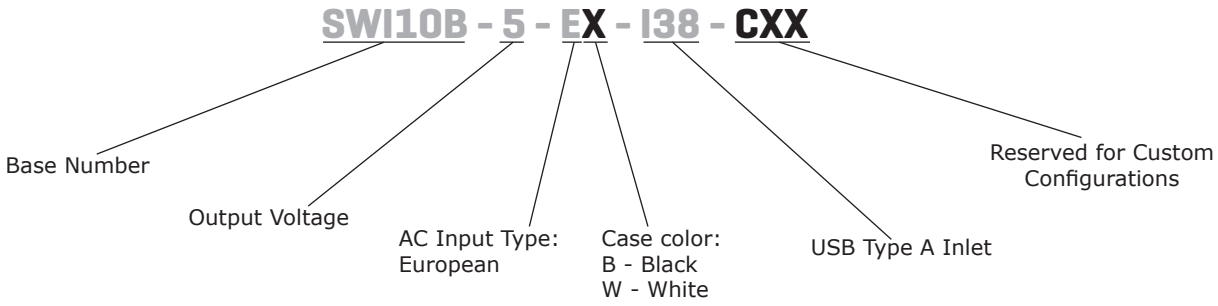
RoHS CE

MODEL

MODEL	input voltage range (Vac)	input frequency range (Hz)	output voltage nom (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level	no load power consumption typ (W)
SWI10B-5-EX-I38	90 ~ 264	47 ~ 63	5	2	10	300	VI	0.05

Notes: 1. At full load, nominal AC input voltage, 25°C, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF and 10 µF capacitors to ground.

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				3	s
rise time	at 90 Vac ~ 264 Vac input voltage			100	ms
hold-up time	nominal input, full load	5			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection				10	Vdc
over current protection	auto recovery			3.0	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
safety approvals	certified to 62368-1: IEC CE				
EMI/EMC	EN55032:2015, EN55035:2017				
MTBF	as per Telcordia SR-332 (Issue 2), at 115/230 Vac, full load, 0°C~40°C	50,000			hours
RoHS	yes				

ENVIRONMENTAL

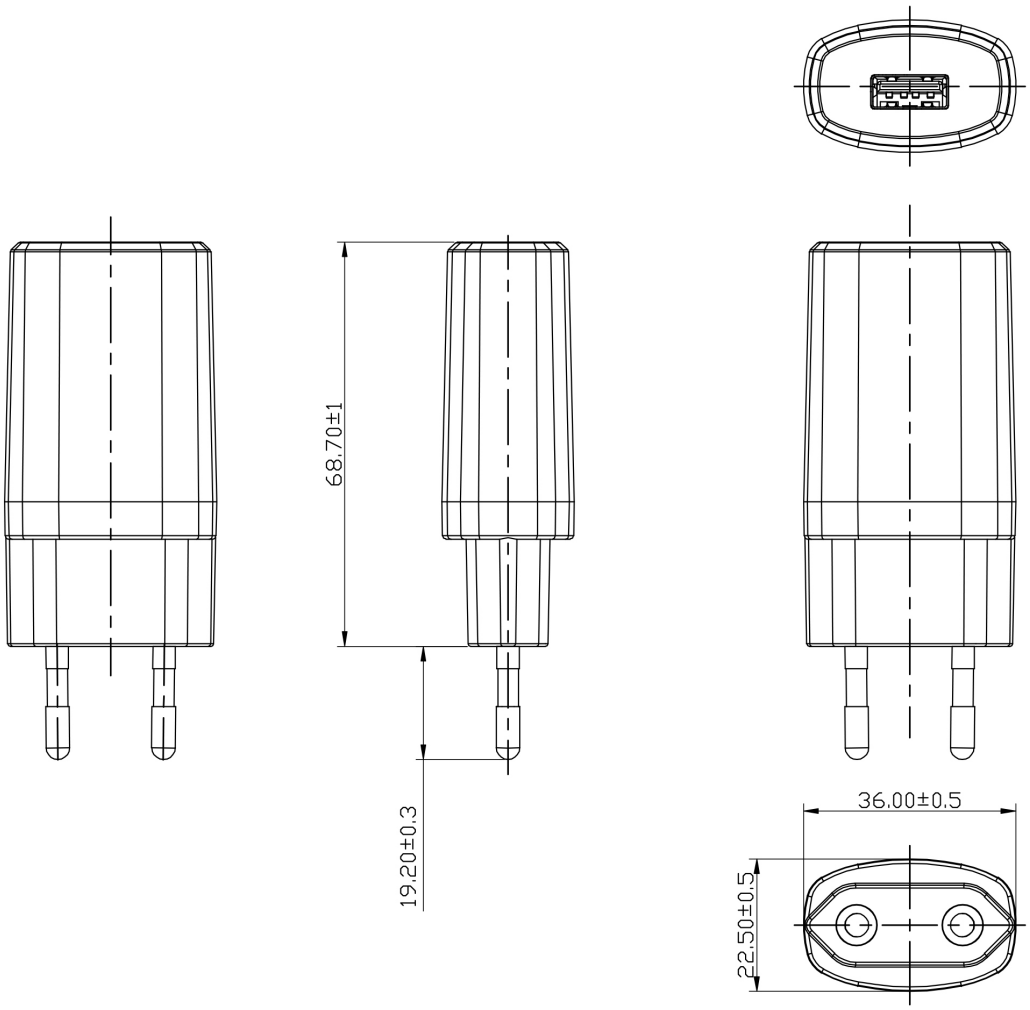
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	5		95	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	89.2 x 37 x 23.5				mm
inlet plug	EU, 2-pin				
weight			39		g

MECHANICAL DRAWING

units: mm



REVISION HISTORY

rev.	description	date
1.0	initial release	04/22/2020
1.01	model table updated	11/27/2020
1.02	updated model table & start-up time, rise time, over current, and short circuit protection conditions	06/05/2024
1.03	datasheet updated	12/07/2024

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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