

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

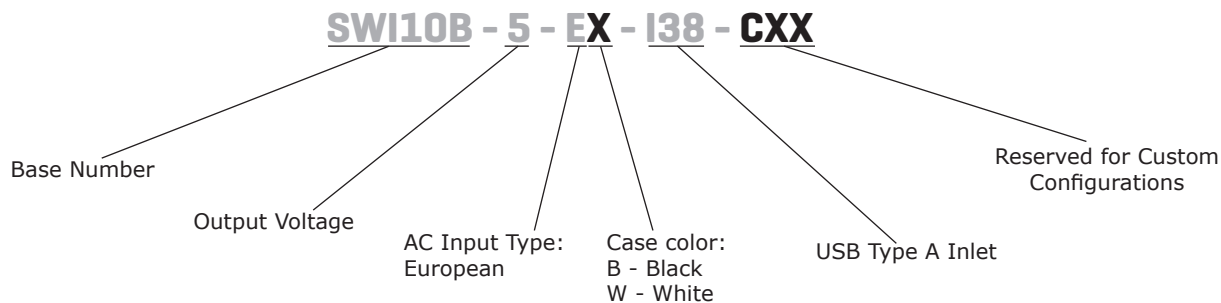
**FEATURES**

- 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 standards
- Class II construction
- black and white case options available



MODEL	input voltage	input frequency	output voltage	output current	output power	ripple and noise <sup>1</sup>	efficiency level		no load power consumption
	range (Vac)	range (Hz)	nom (Vdc)	max (A)	max (W)	max (mVp-p)	average <sup>2</sup> (%)	10% (%)	typ (W)
SWI10B-5-EX-I38	90 ~ 264	47 ~ 63	5	2	10	300	83.3	80.0	0.05

Notes: 1. At full load, nominal AC input voltage, 25°C, 20 MHz bandwidth oscilloscope, output terminated with 0.1  $\mu$ F and 10  $\mu$ F capacitors to ground.  
 2. Average efficiency is measured at 25%, 50%, 75%, and 100% load.

**PART NUMBER KEY**


## INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		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	nominal input, full load	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	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

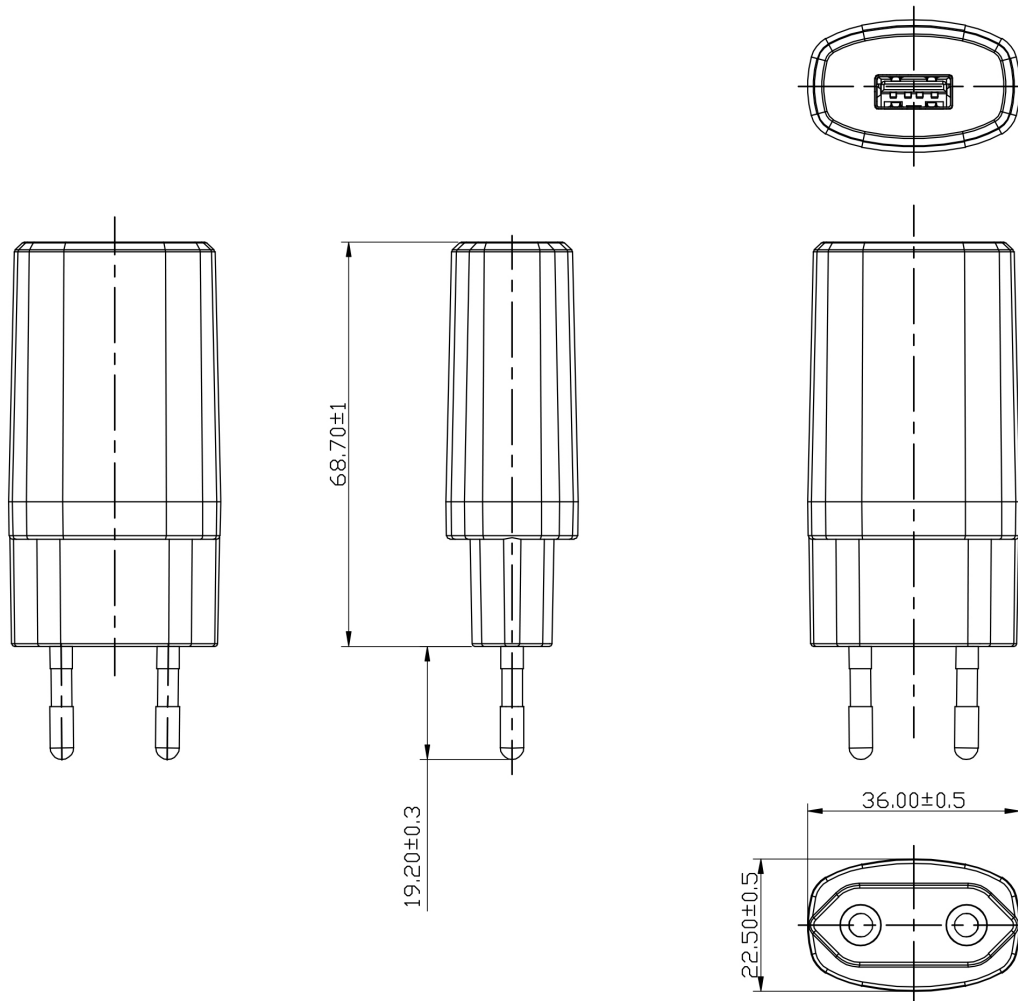
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	5		95	%

## 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

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



**Headquarters**  
20050 SW 112th Ave.  
Tualatin, OR 97062  
**800.275.4899**

Fax 503.612.2383  
**cui.com**  
techsupport@cui.com

CUI offers a two (2) 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.