

date 09/19/2023

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

#### **FEATURES**

- USB PD 3.0; 5V, 15W; 9V, 20W; 12V, 20W
- European fixed blade input
- USB Type-C output connector
- black or white case
- IEC-62368-1; LPS
- EN 55032 compliant
- 90~264 Vac input
- 0~40 °C operating temperature
- overcurrent, overvoltage, and short circuit protection



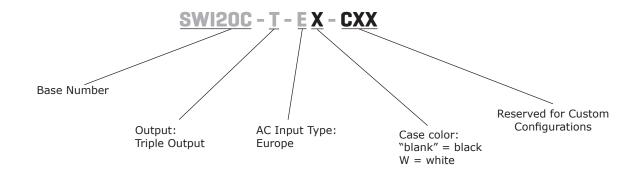
# **CELPS**

MODEL	output voltage	output current	output power		
	(Vdc)	max (A)	max (W)	<b>max</b> (mVp-p)	<b>typ</b> (%)
	5	3	15	300	82
SWI20C-E	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.

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	А
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
	5 Vdc output			10	Vdc
over voltage protection	9 Vdc output			16	Vdc
5 .	12 Vdc output			16	Vdc
	5 Vdc output			4.5	A
over current protection	9 Vdc output			3.3	Α
·	12 Vdc output			2.5	Α
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			ΜΩ
safety class	class II, LPS				
safety approvals	designed to meet 62368-1: IEC				
EMI/EMC	designed to meet CE (EN 55032)				
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**

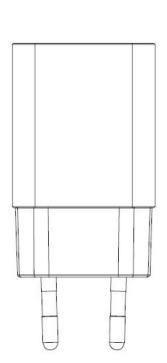
parameter	conditions/description	min	typ	max	units
dimensions	81.4 x 38.25 x 23				mm
inlet plug	Europe, 2-pin				
weight			51		g

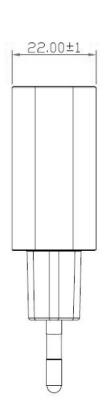
## **MECHANICAL DRAWING**

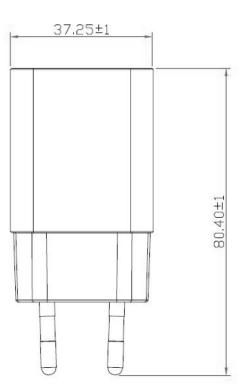
units: mm

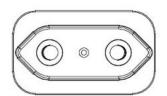
tolerance: ±1.0 mm











Additional Resources: Product Page | 3D Model

#### **REVISION HISTORY**

rev.	description	date
1.0	initial release	09/19/2023

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.

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