

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

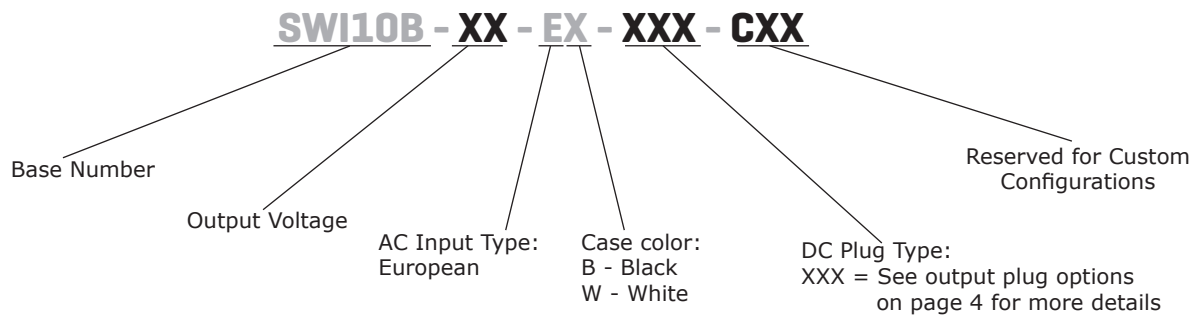
FEATURES

- up to 12 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
- certified to IEC 62368-1
- CE safety approval
- Class II construction
- black and white case options available


MODEL

	input voltage	input frequency	output voltage	output current	output power	ripple and noise ¹	efficiency level		no load power consumption
	range (Vac)	range (Hz)	nom (Vdc)	max (A)	max (W)	max (mVp-p)	average ² (%)	10% (%)	typ (W)
SWI10B-5-E	90 ~ 264	47 ~ 63	5	2	10	300	79.9	76.1	0.06
SWI10B-12-E	90 ~ 264	47 ~ 63	12	1	12	180	84.0	79.3	0.06

Notes: 1. At full load, nominal AC input voltage, 25°C, 20 MHz bandwidth oscilloscope, output terminated with 0.1 μ F and 10 μ 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	100~240	264	Vac
frequency		47	50~60	63	Hz
current	at nominal input voltage			0.5	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	5 Vdc output model			10	Vdc
	12 Vdc output model			18	Vdc
over current protection	output shut down, auto recovery				
	5 Vdc output model			3.0	A
	12 Vdc output model			1.8	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 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

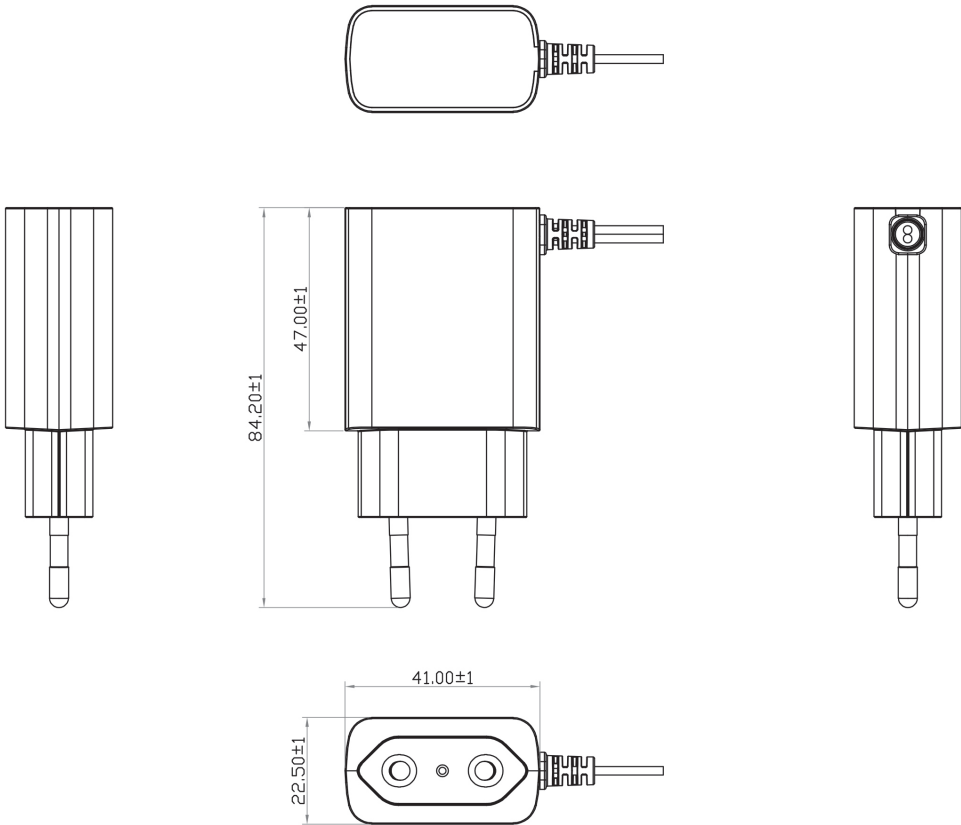
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	5		95	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	85.2 x 42 x 23.5				mm
inlet plug	EU, 2-pin				
weight			66		g

MECHANICAL DRAWING

units: mm



DC CORD

units: mm

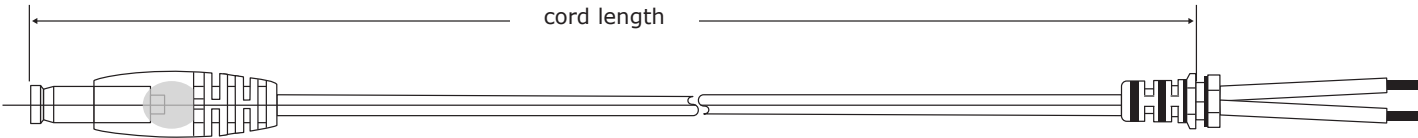
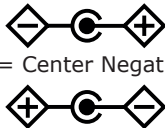


Table 1

MODEL NO.	CABLE	CORD LENGTH
SWI10B-5-E	UL2468, 20 AWG	1,500 mm ±50
SWI10B-12-E	UL2468, 24 AWG	1,500 mm ±50

DC PLUG TYPE PART NUMBER KEY

XXX

Plug Polarity:
 P = Center Positive

 N = Center Negative

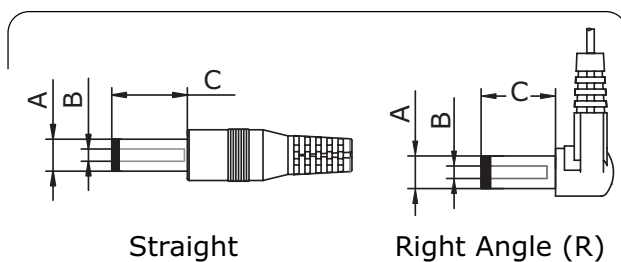
Plug Code:
 X = Choose a code from the options below

Plug Angle:
 "blank" = Straight
 R = Right Angle

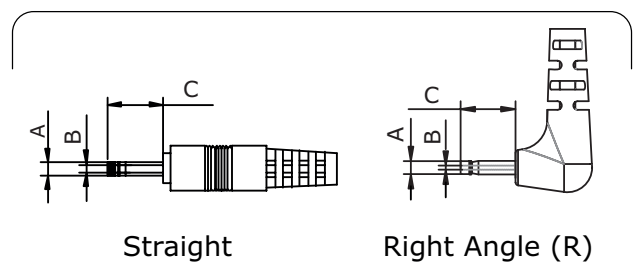
Plug Polarity		Code		Dimensions (mm)			Plug Angle	
Center Pos.	Center Neg.	Option	Type	A	B	C	Straight	Right
•	•	5	Standard	5.5	2.1	9.5	•	•
•	•	6	Standard	5.5	2.5	9.5	•	•
•	•	7	Standard	3.5	1.35	9.5	•	•
•	•	8	Standard	3.8	1.35	9.5	•	•
•	•	9	Standard	3.8	1.05	9.5	•	•
•	•	10	Locking ²	5.5	2.1	9.5	•	N/A
•	•	11	Locking ²	5.5	2.5	9.5	•	N/A
•	•	12	EIAJ-1	2.35	0.7	9.5	•	•
•	•	13	EIAJ-2	4.0	1.7	9.5	•	•
•	•	14	EIAJ-3	4.75	1.7	9.5	•	•
N/A	N/A	ST	Stripped & Tinned				N/A	N/A
N/A	N/A	MUB	USB	Micro USB Type B			•	N/A

Note: 1. Contact CUI for additional plug options
 2. Maximum insertion depth is 10mm

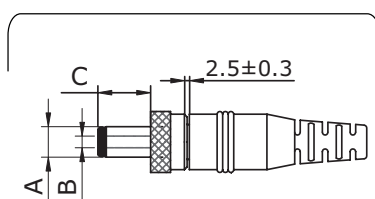
Standard



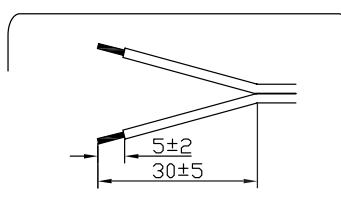
EIAJ



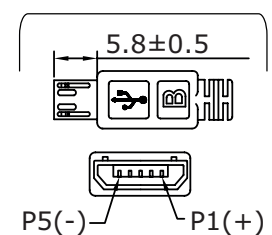
Locking



Stripped & Tinned



USB



REVISION HISTORY

rev.	description	date
1.0	initial release	04/22/2020
1.01	model table updated	11/27/2020
1.02	plug polarity symbols updated	09/16/2021
1.03	dc plugs updated	04/25/2022
1.04	datasheet updated	12/07/2024

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



Headquarters
15575 SW Sequoia Pkwy #100
Portland, OR 97224
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

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