

SERIES: SWI10B-N | 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
- UL/cUL, FCC
- certified to IEC 62368-1
- Class II construction
- black and white case options available

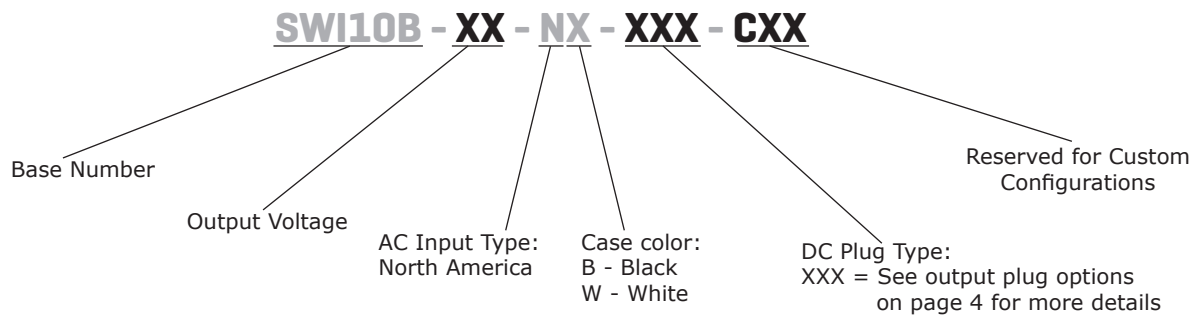


MODEL

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise ¹ max (mVp-p)	efficiency level
SWI10B-5-N	5	2	10	300	VI
SWI10B-12-N	12	1	12	180	VI

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

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

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: IEC, UL				
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

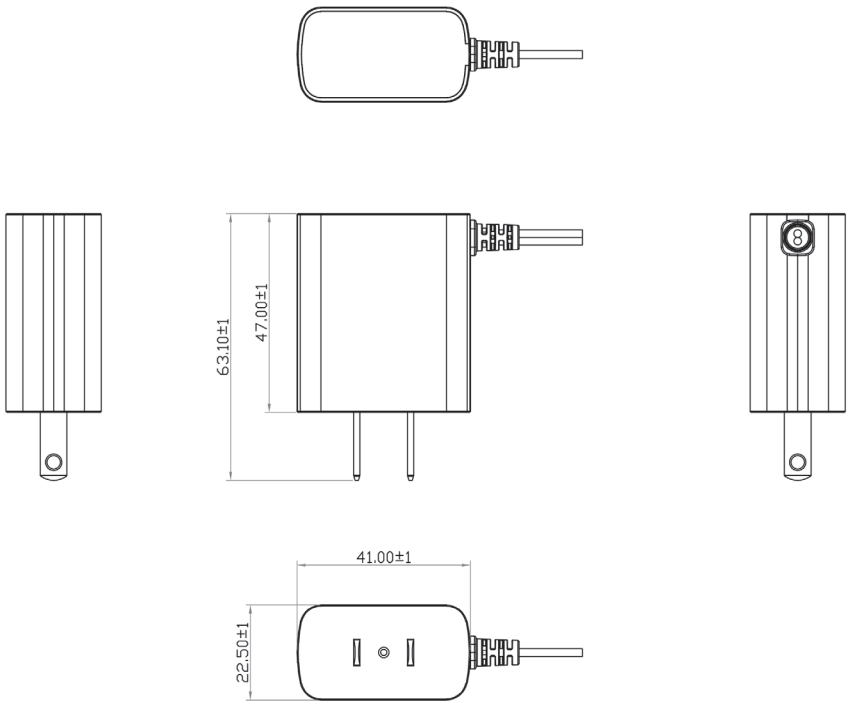
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	5		95	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	64.1 x 42 x 23.5				mm
inlet plug	North America, 2-pin				
weight			57		g

MECHANICAL DRAWING

units: mm



DC CORD

units: mm

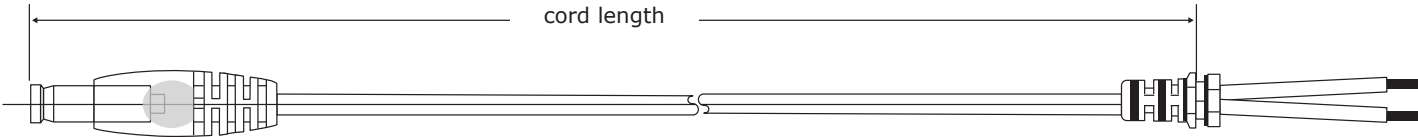
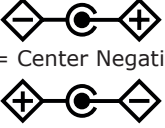


Table 1

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

DC PLUG TYPE PART NUMBER KEY

Plug Polarity:
P = Center Positive
N = Center Negative

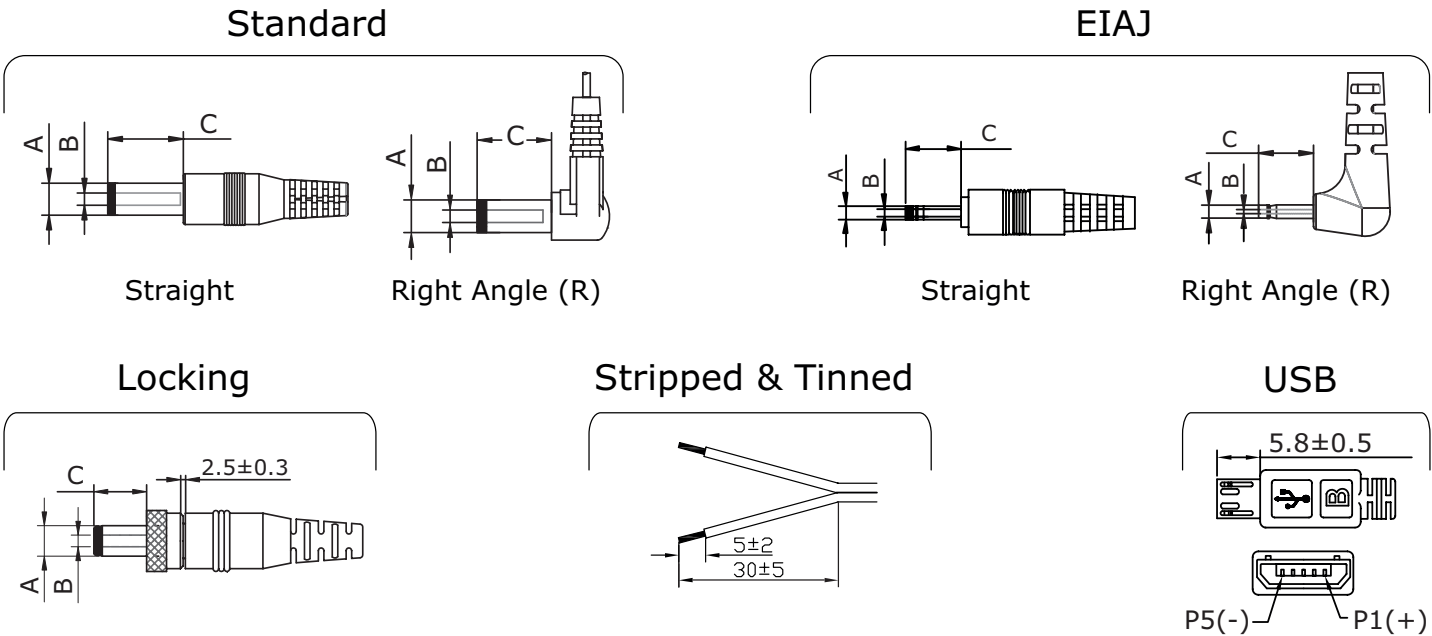


Plug Code:
X = Choose a code from the options below

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



REVISION HISTORY

rev.	description	date
1.0	initial release	06/01/2020
1.01	plug polarity symbols updated	09/16/2021
1.02	dc plugs updated	04/25/2022
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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