SERIES: SWI5-N | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

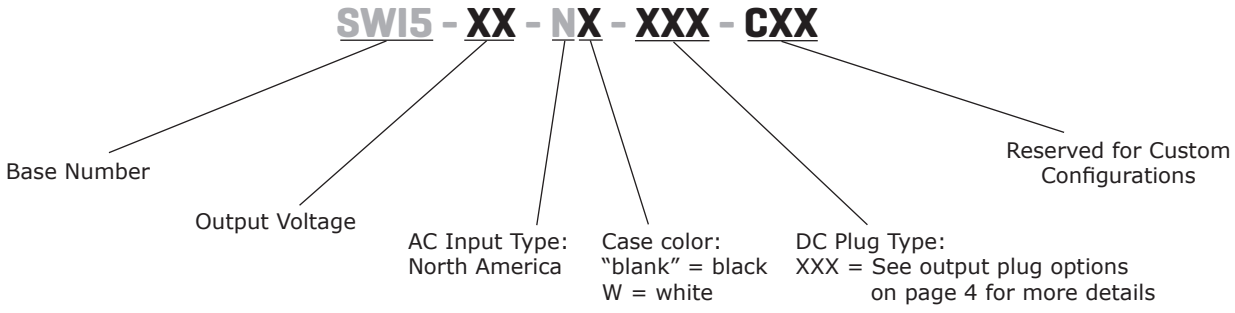
- up to 6 W continuous power
- DoE Level VI efficiency
- universal input voltage range
- ultra-compact case
- no load power consumption < 0.075 W
- over voltage, over current, and short circuit protections
- UL/cUL, PSE, FCC safety approvals
- Class II construction
- certified to IEC 62368-1
- black and white case options

MODEL

MODEL	output voltage typ (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level
SWI5-5-N	5	1.0	5.0	300	VI
SWI5-5B-N	5	1.2	6.0	300	VI
SWI5-9-N	9	0.6	5.4	300	VI
SWI5-12-N	12	0.5	6.0	300	VI

Notes: 1. At full load, 25°C, at 115/230 Vac input, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF and 10 µF 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			0.2	A
leakage current	at nominal input voltage & frequency			0.25	mA
no load power consumption	at 115/230 Vac, 60/50 Hz			0.075	W

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation			±5		%
load regulation			±5		%
start-up time				3	s
hold-up time	at nominal input voltage & full load	5			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	5 Vdc output model 5 Vdc output B model 9 Vdc output model 12 Vdc output model			6.5 8.0 18.0 15.6	Vdc Vdc Vdc Vdc
over current protection	output shut down, auto recovery 5 Vdc output model 5 Vdc output B model 9 Vdc output model 12 Vdc output model			 1.8 2.4 1.2 0.9	 A A A A
short circuit protection					

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	designed to meet UL/CUL (UL 62368-1), PSE (J62368-1)				
EMI/EMC	FCC (PART 15 CLASS B, ICES-003 Issue 7 Class B), PSE (J55032)				
MTBF	as per Telcordia SR-332 (Issue 2), at 115/230 Vac, full load, 0°C~40°C	50,000			hours
RoHS	yes				

ENVIRONMENTAL

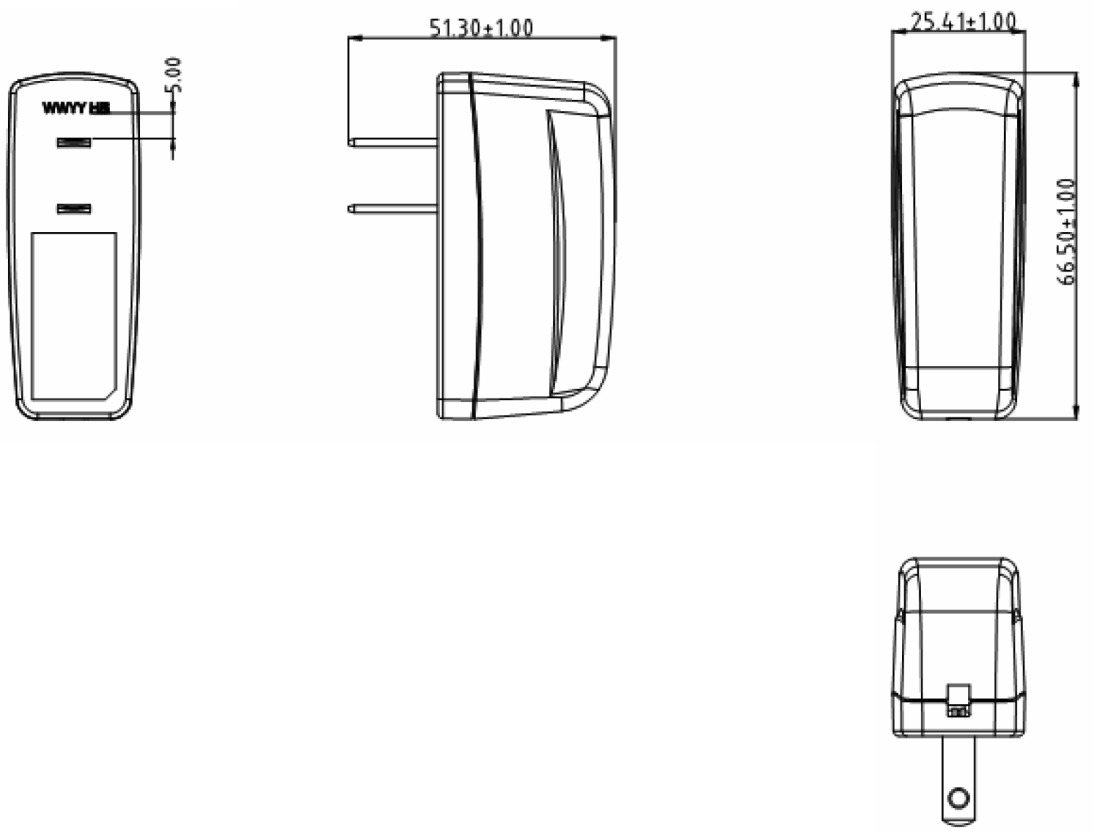
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	5		95	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	66.5 x 25.4 x 51.3				mm
inlet plug	North America, 2-pin				
weight			58		g

MECHANICAL DRAWING

units: mm



DC CORD

units: mm

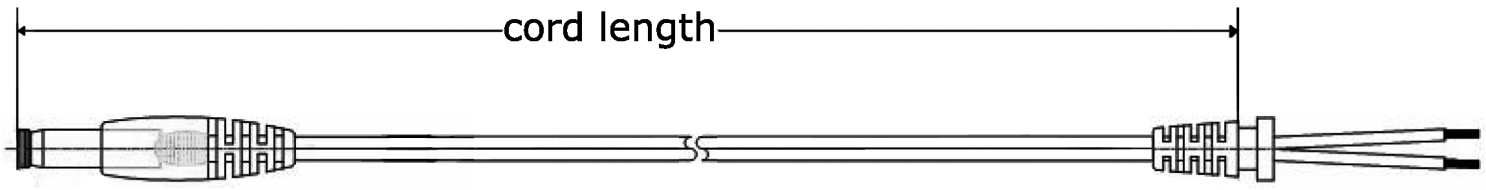


Table 1

MODEL NO.	CABLE	CORD LENGTH
SWI5-5-N	UL2468, 24 AWG	1,500 mm ±50
SWI5-5B-N	UL2468, 24 AWG	1,500 mm ±50
SWI5-9-N	UL2468, 24 AWG	1,500 mm ±50
SWI5-12-N	UL2468, 24 AWG	1,500 mm ±50

DC PLUG TYPE PART NUMBER KEY

X X X

Plug Polarity:
P = Center Positive

N = Center Negative

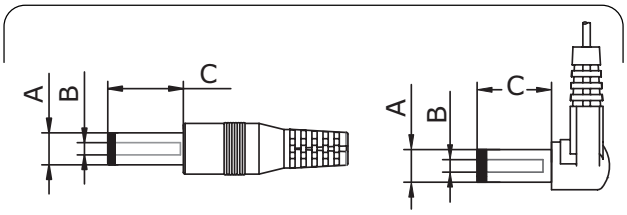
Plug Code:
X = Choose a code from the options below

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

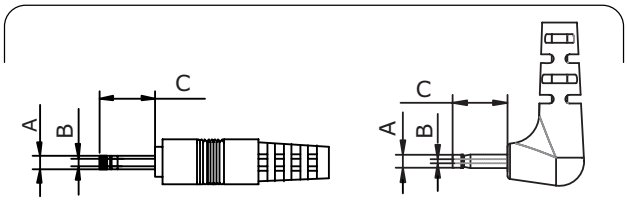
Note: 1. Contact CUI for additional plug options
2. Maximum insertion depth is 10mm

Standard



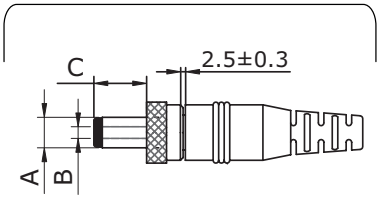
Straight Right Angle (R)

EIAJ

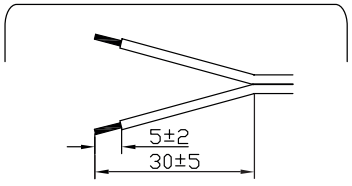


Straight Right Angle (R)

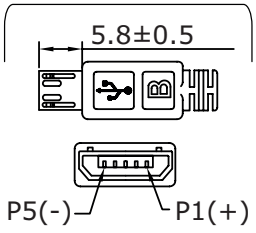
Locking



Stripped & Tinned



USB



REVISION HISTORY

rev.	description	date
1.0	initial release	11/23/2016
1.01	company logo updated	09/21/2020
1.02	safety marks updated	04/22/2021
1.03	specification updated to show 62368 on safety line	05/12/2021
1.04	updated datasheet	08/09/2021
1.05	product image updated	08/20/2021
1.06	minimum current ratings updated	11/04/2021
1.07	dc plugs updated	04/24/2022
1.08	safeties updated	09/27/2023
1.09	datasheet updated	12/02/2024

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

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