SERIES: SWI60-N | **DESCRIPTION:** AC-DC POWER SUPPLY

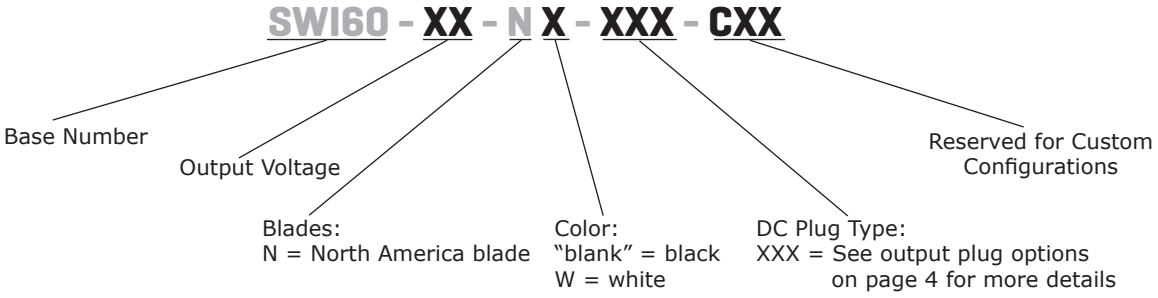
FEATURES

- 60 W continuous power
- meets DoE VI, ErP (Lot 7), GEMS, NRCan
- no load power consumption < 0.21 W
- universal input voltage range
- fixed North American AC blade
- over voltage, over current, and short circuit protections
- UL/cUL and PSE safety approvals
- UL 62368-1

MODEL	output voltage nom (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level
SWI60-12-N	12	5.0	60.0	120	VI
SWI60-15-N	15	4.0	60.0	150	VI
SWI60-18-N	18	3.33	59.94	180	VI
SWI60-19-N	19	3.15	59.85	190	VI
SWI60-24-N	24	2.5	60.0	240	VI
SWI60-30-N	30	2.0	60.0	300	VI
SWI60-48-N	48	1.25	60.0	480	VI

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, each output terminated with 0.1 µF multilayer and 47 µF low ESR electrolytic 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				1.5	A
inrush current	at 230 Vac, full load, 25°C, cold start			80	A
leakage current[2]				0.5	mA
no load power consumption	at 230 Vac, no load			0.21	W

Notes: 2. Less than 0.5 mA (RMS) or 0.707 mA (Peak).

OUTPUT

parameter	conditions/description	min	typ	max	units
load regulation			±5		%

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection				180	%
over current protection	auto recovery			180	%
short circuit protection	auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output for 1 minute, 10 mA max		3,000		Vac
safety approvals	UL / CUL / PSE				
EMI/EMC	FCC (conduction & radiation Class B)				
MTBF	as per Telcordia SR-332, 25°C	300,000			hours
RoHS	yes				

ENVIRONMENTAL

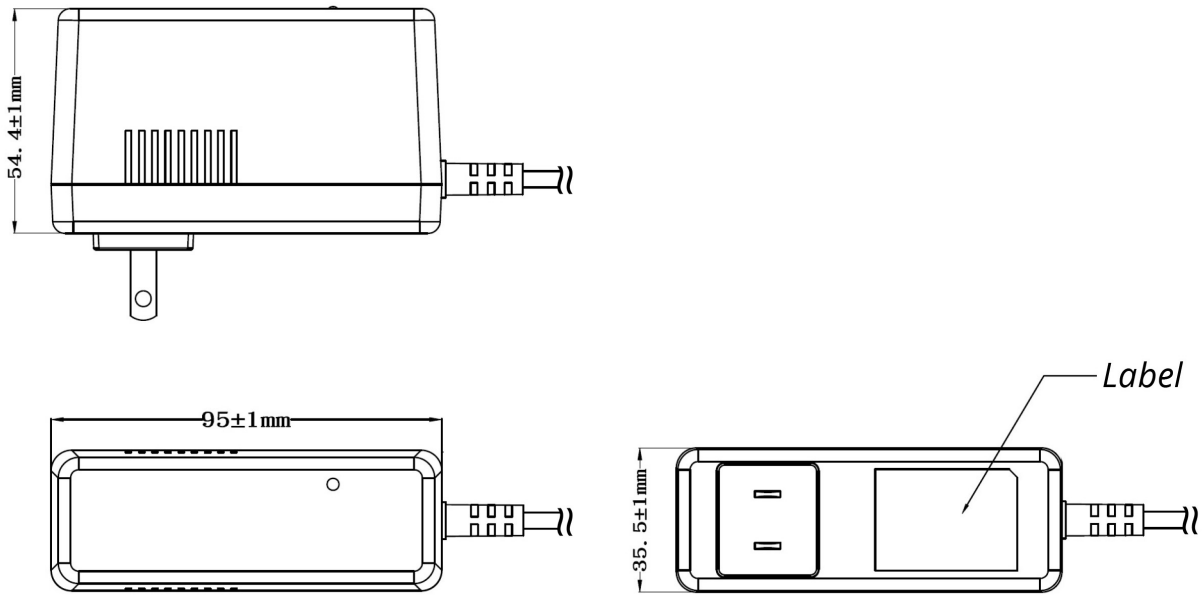
parameter	conditions/description	min	typ	max	units
operating temperature		-20		40	°C
storage temperature		-20		80	°C
operating humidity	non-condensing	20		80	%
storage humidity	non-condensing	10		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	95 x 35.5 x 54.4				mm
inlet plug	fixed NA blade				
weight			275		g

MECHANICAL DRAWING

units: mm
tolerance: ±1.0 mm



DC CORD

units: mm

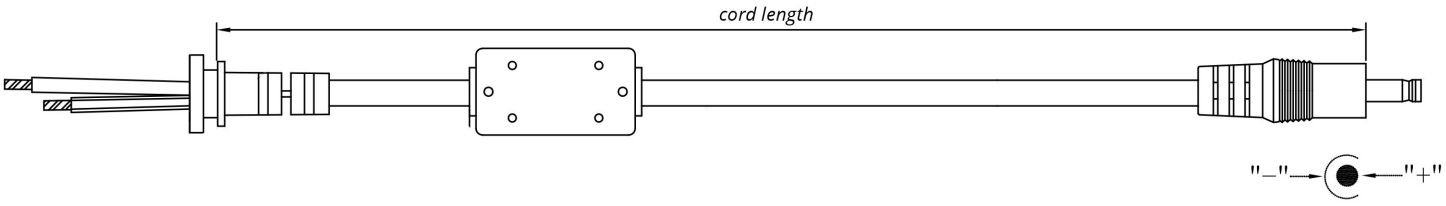


Table 1

MODEL NO.	CABLE	CORD LENGTH
SWI60-12-N	UL1185, 16 AWG	1,500 mm ±30
SWI60-15-N	UL1185, 16 AWG	1,500 mm ±30
SWI60-18-N	UL1185, 18 AWG	1,500 mm ±30
SWI60-19-N	UL1185, 18 AWG	1,500 mm ±30
SWI60-24-N	UL1185, 18 AWG	1,500 mm ±30
SWI60-30-N	UL1185, 20 AWG	1,500 mm ±30
SWI60-48-N	UL1185, 20 AWG	1,500 mm ±30

DC PLUG TYPE PART NUMBER KEY

X X X

Plug Polarity:
P = Center Positive

N = Center Negative

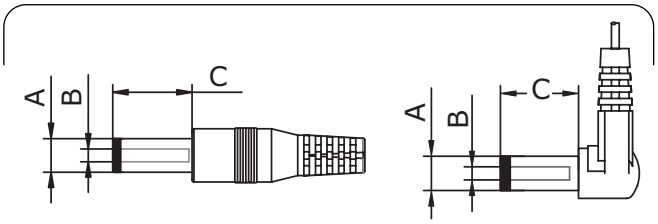
Plug Code:
X = Choose a code from the options below

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

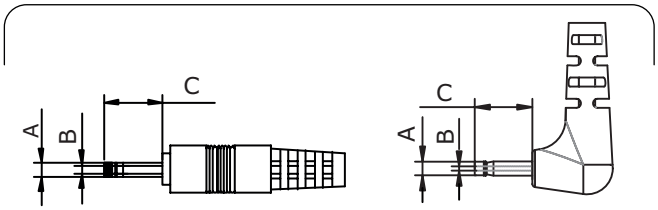
Note: 1. Contact CUI for additional plug options
2. Maximum insertion depth is 10mm

Standard



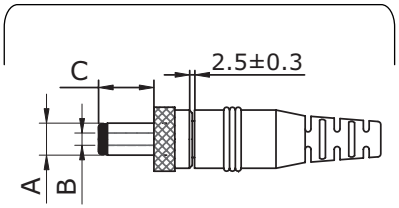
Straight Right Angle (R)

EIAJ

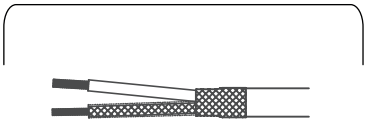


Straight Right Angle (R)

Locking



Stripped & Tinned



REVISION HISTORY

rev.	description	date
1.0	initial release	02/10/2025

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

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