

SERIES: SWI36-N | **DESCRIPTION:** AC-DC POWER SUPPLY

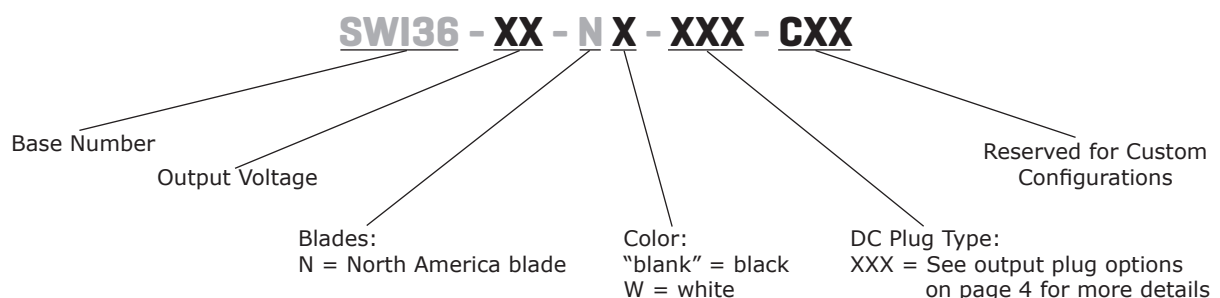
FEATURES

- up to 36 W continuous power
- DoE VI, ErP (Lot 7), GEMS, NRCAN, CEC, CoC Tier2 efficiency
- no load power consumption < 0.1 W
- universal input voltage range
- fixed North American AC blade
- over voltage, over current, and short circuit protections
- UL/cUL and PSE safety approvals
- certified to 62368-1 standards



MODEL	output voltage nom (Vdc)	output current max (A)	output power max (W)	ripple and noise ¹ max (mVp-p)	efficiency level
SWI36-5-N	5.0	5.00	25	80	VI
SWI36-7.5-N	7.5	4.00	30	75	VI
SWI36-8.5-N	8.5	3.52	30	85	VI
SWI36-9-N	9.0	3.34	30	90	VI
SWI36-12-N	12.0	3.00	36	120	VI
SWI36-13.5-N	13.5	2.66	36	135	VI
SWI36-15-N	15.0	2.40	36	150	VI
SWI36-16-N	16.0	2.25	36	160	VI
SWI36-18-N	18.0	2.00	36	180	VI
SWI36-24-N	24.0	1.50	36	240	VI
SWI36-48-N	48.0	0.75	36	480	VI

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, each output terminated with 0.1 μ F multilayer and 47 μ F 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	A
inrush current	at 230 Vac, full load, 25°C, cold start			70	A
leakage current				0.25	mA
no load power consumption	at 230 Vac			0.1	W

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				200	%
short circuit protection	auto recovery				

SAFETY & COMPLIANCE

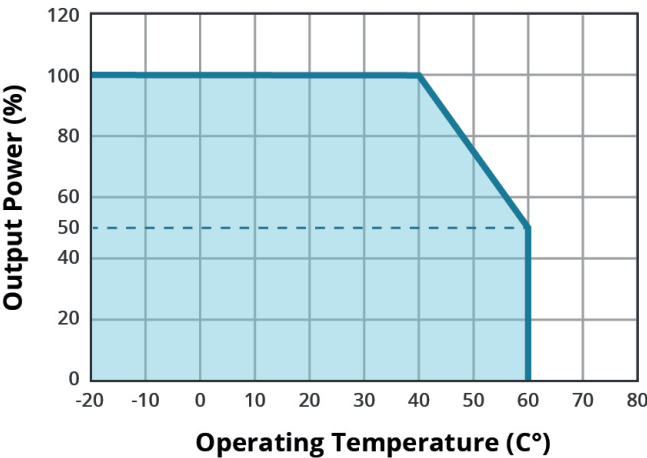
parameter	conditions/description	min	typ	max	units
isolation voltage	input to output for 1 minute, 10 mA max		3,000		Vac
safety approvals	UL / CUL / PSE				
EMI/EMC	FCC (conduction & radiation Class B)				
MTBF	as per Telcordia SR-332, 25°C	300,000			hours
RoHS	yes				

ENVIRONMENTAL

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

DERATING CURVE

TEMPERATURE DERATING CURVE

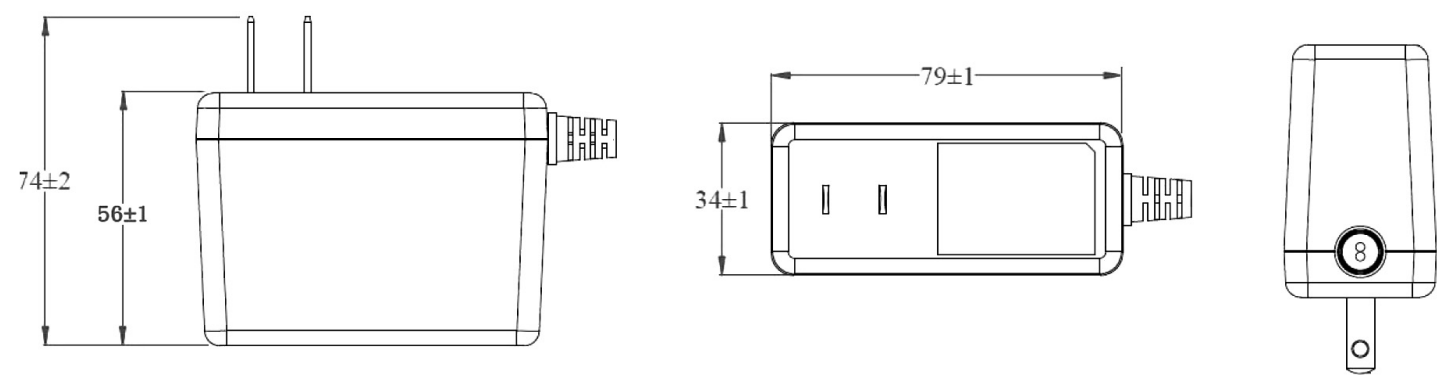


MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	79 x 34 x 74				mm
inlet plug	fixed NA blade				
weight			160		g

MECHANICAL DRAWING

units: mm
tolerance: ±1.0 mm



DC CORD

units: mm

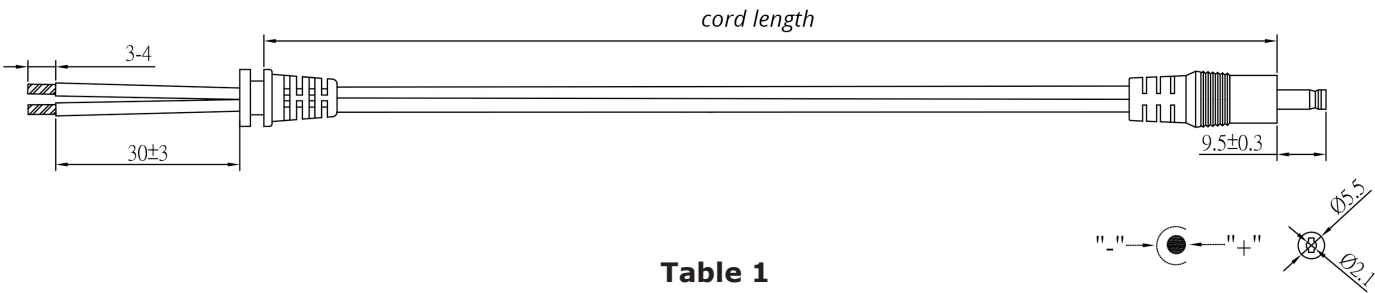


Table 1

MODEL NO.	CABLE	CORD LENGTH
SWI36-5-N	UL2468, 16 AWG	1,000 mm ±30
SWI36-7.5-N	UL2468, 16 AWG	1,500 mm ±30
SWI36-8.5-N	UL2468, 18 AWG	1,500 mm ±30
SWI36-9-N	UL2468, 18 AWG	1,500 mm ±30
SWI36-12-N	UL2468, 18 AWG	1,500 mm ±30
SWI36-13.5-N	UL2468, 18 AWG	1,500 mm ±30
SWI36-15-N	UL2468, 18 AWG	1,500 mm ±30
SWI36-16-N	UL2468, 18 AWG	1,500 mm ±30
SWI36-18-N	UL2468, 18 AWG	1,500 mm ±30
SWI36-24-N	UL2468, 20 AWG	1,500 mm ±30
SWI36-48-N	UL2468, 22 AWG	1,500 mm ±30

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

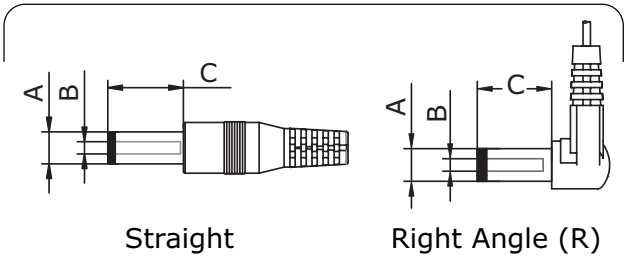
Plug Polarity		Code		Dimensions (mm)			Plug Angle	
Center Pos.	Center Neg.	Option	Type	A	B	C	Straight	Right
•	•	5	Standard	5.5	2.1	9.5	•	•
•	•	6	Standard	5.5	2.5	9.5	•	•
•	•	7	Standard	3.5	1.35	9.5	•	•
•	•	8	Standard	3.8	1.35	9.5	•	•
•	•	9	Standard	3.8	1.05	9.5	•	•
•	•	10	Locking ²	5.5	2.1	9.5	•	N/A
•	•	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

Note:

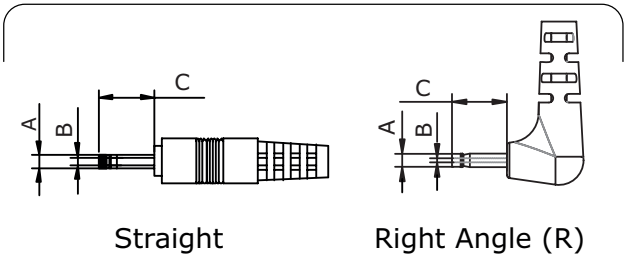
1. Contact CUI for additional plug options

2. Maximum insertion depth is 10mm

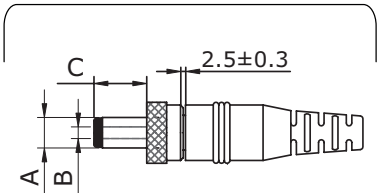
Standard



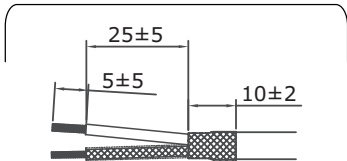
EIAJ



Locking



Stripped & Tinned



REVISION HISTORY

rev.	description	date
1.0	initial release	11/28/2023
1.01	datasheet updated	12/09/2024

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