



SERIES: SWI18-N | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

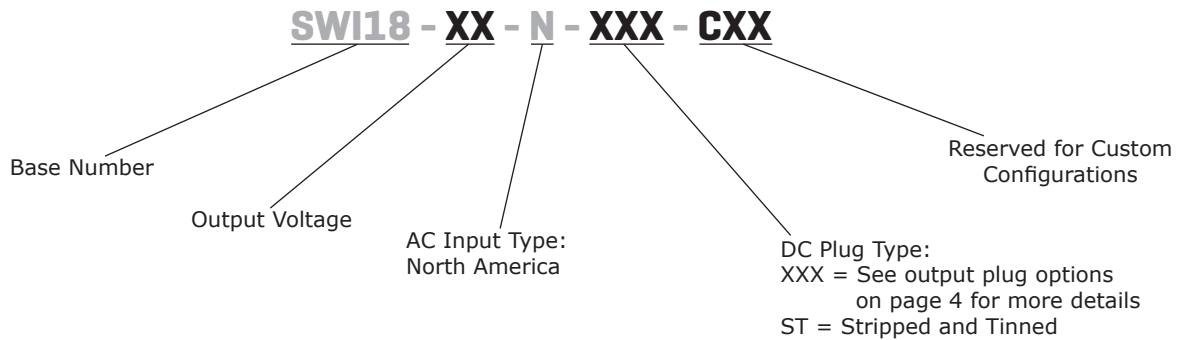
- up to 18 W continuous power
- DOE Level VI, CEC, ErP Stage 2
- no load power consumption < 0.1 W
- compact size
- universal input voltage range
- over voltage, over current, and short circuit protections
- UL/cUL, PSE safety approvals



MODEL	output voltage	output current max	output power max	ripple and noise ¹ max	efficiency level
	(Vdc)	(A)	(W)	(mVp-p)	
SWI18-5-N	5	3	15	100	VI
SWI18-9-N	9	2.2	19.8	100	VI
SWI18-12-N	12	1.6	19.2	120	VI
SWI18-24-N	24	0.8	19.2	240	VI

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, each output terminated with 0.1 µF multilayer ceramic and 10 µF low ESR electrolytic capacitors.

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				0.48	A
inrush current	at 100 Vac, full load, 25°C, cold start at 230 Vac, full load, 25°C, cold start			50 60	A A
leakage current				0.25	mA
no load power consumption	at 230 Vac			0.1	W

OUTPUT

parameter	conditions/description	min	typ	max	units
regulation	5 Vdc output model all other models		±6 ±5		% %
hold-up time	at full load	10			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	output shut down 5 Vdc output model 9 Vdc output model 12 Vdc output model 24 Vdc output model			12 16 22 45	Vdc Vdc Vdc Vdc
over current protection	output shut down, auto recovery 5 Vdc output model 9 Vdc output model 12 Vdc output model 24 Vdc output model			7 5 5 2.5	A A A A
short circuit protection	output shut down, auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 1 minute		3,000		Vac
isolation resistance	input to output at 500 Vdc	10			MΩ
safety approvals	UL/cUL, PSE				
EMI/EMC	FCC Part 15B Class B				
MTBF	as per Telcordia SR-332, 25°C	300,000			hours
RoHS	2011/65/EU				

ENVIRONMENTAL

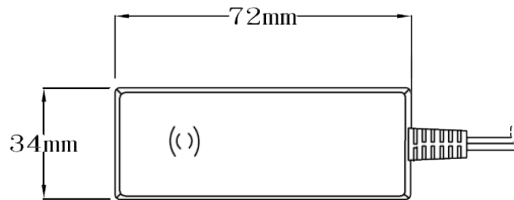
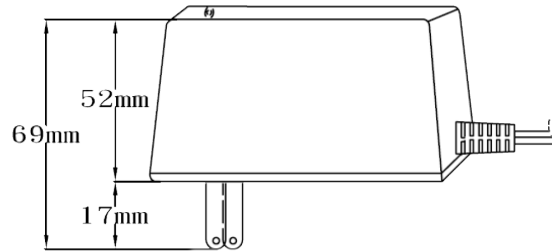
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		80	°C
operating humidity	non-condensing	20		80	%
storage humidity	non-condensing	10		90	%

MECHANICAL

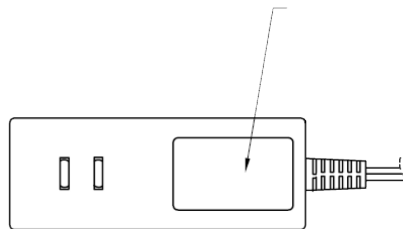
parameter	conditions/description	min	typ	max	units
dimensions	72 x 34 x 69				mm
inlet plug	North America, 2-pin				
weight			170		g

MECHANICAL DRAWING

units: mm



LABEL



DC CORD

units: mm

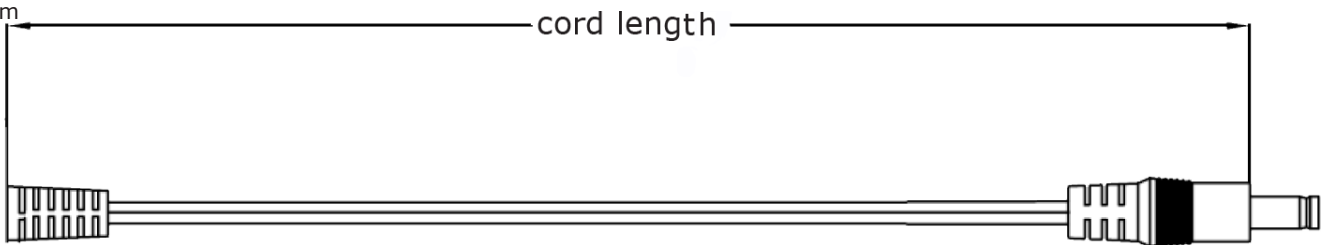
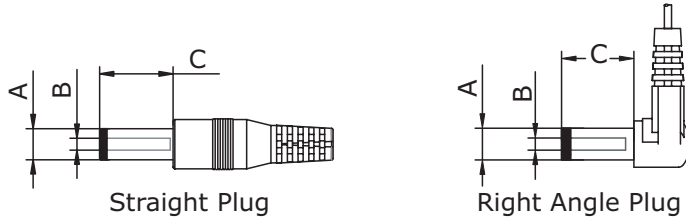


Table 1

MODEL NO.	CABLE	CORD LENGTH
SWI18-5-N	UL2468, 18 AWG	1,500 mm ±30
SWI18-9-N	UL2468, 18 AWG	1,500 mm ±30
SWI18-12-N	UL2468, 20 AWG	1,500 mm ±30
SWI18-24-N	UL2468, 22 AWG	1,500 mm ±30

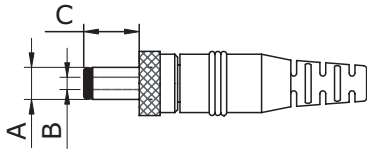
OUTPUT PLUG OPTIONS

Standard DC Plug



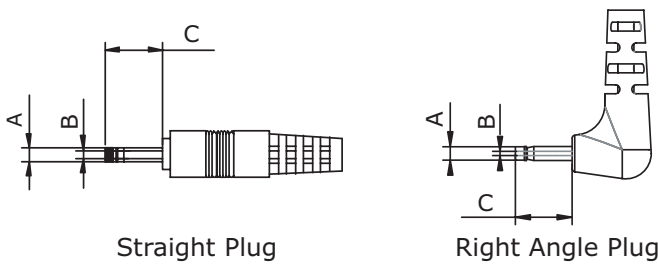
Size	A	B	C	Unit
5	5.5	2.1	9.5	mm
6	5.5	2.5	9.5	mm
7	3.5	1.35	9.5	mm
8	3.8	1.35	9.5	mm
9	3.8	1.05	9.5	mm

Locking DC Plug



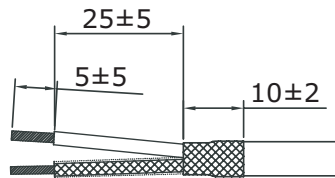
Size	A	B	C	Unit
10	5.5	2.1	9.5	mm
11	5.5	2.5	9.5	mm

EIAJ DC Plug

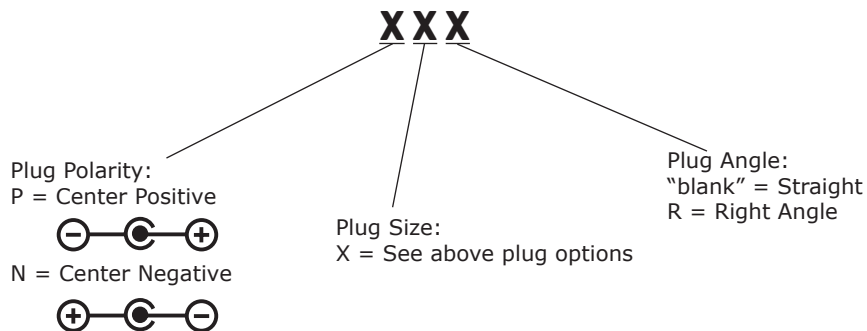


Size	EIAJ	A	B	C	Unit
12	EIAJ-1	2.35	0.7	9.5	mm
13	EIAJ-2	4.0	1.7	9.5	mm
14	EIAJ-3	4.75	1.7	9.5	mm

Stripped and Tinned



DC Plug Type



*Contact CUI for additional plug options

REVISION HISTORY

rev.	description	date
1.0	initial release	08/07/2015
1.01	updated datasheet	01/29/2016

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



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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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