CUI INC®

SERIES: SWI15-N | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

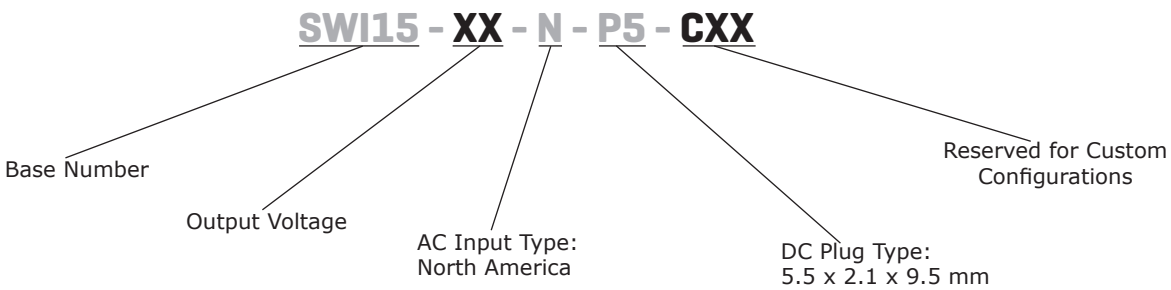
- compact design
- up to 15 W continuous power
- DoE Level VI compliant
- no load power consumption < 0.075 W
- universal input voltage range
- over voltage, over current, and short circuit protections
- UL/cUL and PSE safety approvals
- Class II construction



MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level
SWI15-5-N	5	2	10	50	VI
SWI15-9-N	9	1.4	12.6	90	VI
SWI15-12-N	12	1	12	100	VI
SWI15-15-N	15	1	15	100	VI
SWI15-24-N	24	0.63	15.1	100	VI

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF ceramic and 10 µF electrolytic capacitors.
2. All specifications are measured at Ta=25°C, nominal input voltage, and 75% rated output load unless otherwise specified.

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				0.5	A
inrush current	at 240 Vac, 25°C, cold start			50	A
leakage current				0.25	mA
no load power consumption				0.075	W

OUTPUT

parameter	conditions/description	min	typ	max	units
voltage set point accuracy	at 60% load		±2		%
line regulation	measured from 100~240 Vac, full load		±1		%
load regulation	measured from 60~100% load and 60~20% load 5 Vdc output model all other models		 ±4 ±2		 % %
hold-up time	at 115 Vac		10		ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	hiccup mode, auto recovery 5 Vdc output model 9 Vdc output model 12 Vdc output model 15 Vdc output model 24 Vdc output model			 7.14 12.1 15.8 19.5 28.4	 Vdc Vdc Vdc Vdc Vdc
over current protection	hiccup mode, auto recovery	120		140	%
short circuit protection	continuous, hiccup mode, auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output for 1 minute		3,000 4,242		Vac Vdc
isolation resistance	input to output	100			MΩ
safety approvals	UL/cUL 60950-1, PSE				
safety class	Class II				
EMI/EMC	FCC Part 15 Class B				
MTBF	as per MIL-HDBK-217F at 115 Vac, full load, 25°C	330,000			hours
RoHS	2011/65/EU				

ENVIRONMENTAL

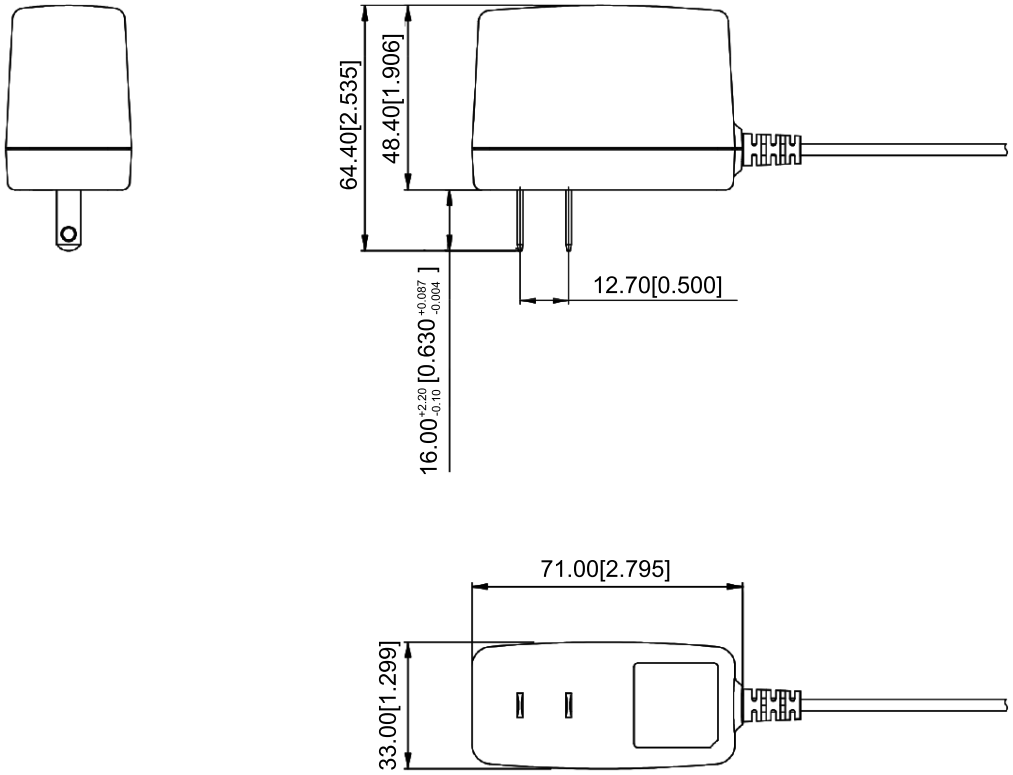
parameter	conditions/description	min	typ	max	units
operating temperature		-20		40	°C
storage temperature		-20		85	°C

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	71.00 x 33.00 x 48.40 (2.795 x 1.299 x 1.906 inches)				mm
inlet plug	North America				
weight			100		g

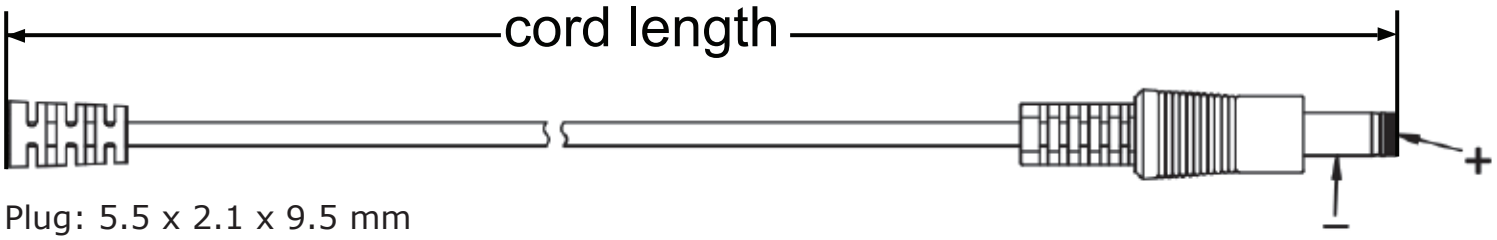
MECHANICAL DRAWING

units: mm [inch]
tolerance: X.XX: ±0.50 [±0.020]



DC CORD

units: mm



Plug: 5.5 x 2.1 x 9.5 mm

Table 1

MODEL NO.	CABLE	CORD LENGTH
SWI15-5-N	20 AWG	1,800 mm ±50
SWI15-9-N	18 AWG	1,800 mm ±50
SWI15-12-N	24 AWG	1,800 mm ±50
SWI15-15-N	24 AWG	1,800 mm ±50
SWI15-24-N	24 AWG	1,800 mm ±50

REVISION HISTORY

rev.	description	date
1.0	initial release	03/08/2017

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.

CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.