

SERIES: SWI6-E | **DESCRIPTION:** AC-DC POWER SUPPLY

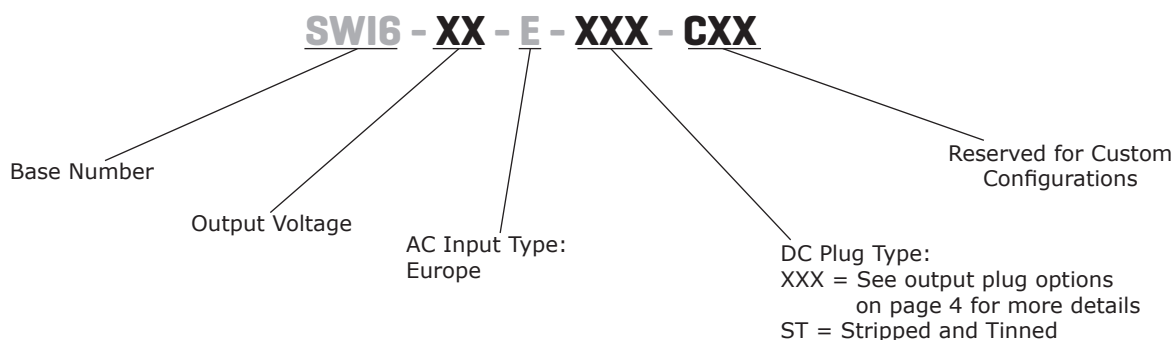
FEATURES

- up to 6 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
- CE safety approvals
- EN 62368 compliant



MODEL	input voltage	input frequency	output voltage	output current	output power	ripple and noise ¹	efficiency level		no load power consumption
	range (Vac)	range (Hz)	nom (Vdc)	max (A)	max (W)	max (mVp-p)	average ² (%)	10% (%)	typ (W)
SWI6-3.3-E	90 ~ 264	47 ~ 63	3.3	1.5	4.95	100	74.0	63.3	0.03
SWI6-5-E	90 ~ 264	47 ~ 63	5	1.5	7.5	100	77.5	66.7	0.05
SWI6-5.9-E	90 ~ 264	47 ~ 63	5.9	1.2	7.08	100	78.7	65.0	0.05
SWI6-7.5-E	90 ~ 264	47 ~ 63	7.5	1.0	7.5	100	80.3	70.1	0.04
SWI6-9-E	90 ~ 264	47 ~ 63	9	0.67	6.03	100	79.9	66.6	0.04
SWI6-12-E	90 ~ 264	47 ~ 63	12	0.6	7.2	120	80.9	65.1	0.05
SWI6-15-E	90 ~ 264	47 ~ 63	15	0.5	7.5	150	80.9	63.3	0.06

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, each output terminated with 0.1 μ F multilayer ceramic and 47 μ F low ESR electrolytic capacitors.
 2. Average efficiency is measured at 25%, 50%, 75%, and 100% load.

PART NUMBER KEY


INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				0.19	A
inrush current	at 240 Vac, full load, 25°C, cold start			60	A
leakage current				0.25	mA
no load power consumption				0.1	W

OUTPUT

parameter	conditions/description	min	typ	max	units
regulation			±5		%
hold-up time	at full load	10			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	output shut down				
over current protection	output shut down, auto recovery				
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	EN 62368				
EMI/EMC	CE				
MTBF	as per Telcordia SR-332, 25°C	300,000			hours
RoHS	2011/65/EU				

ENVIRONMENTAL

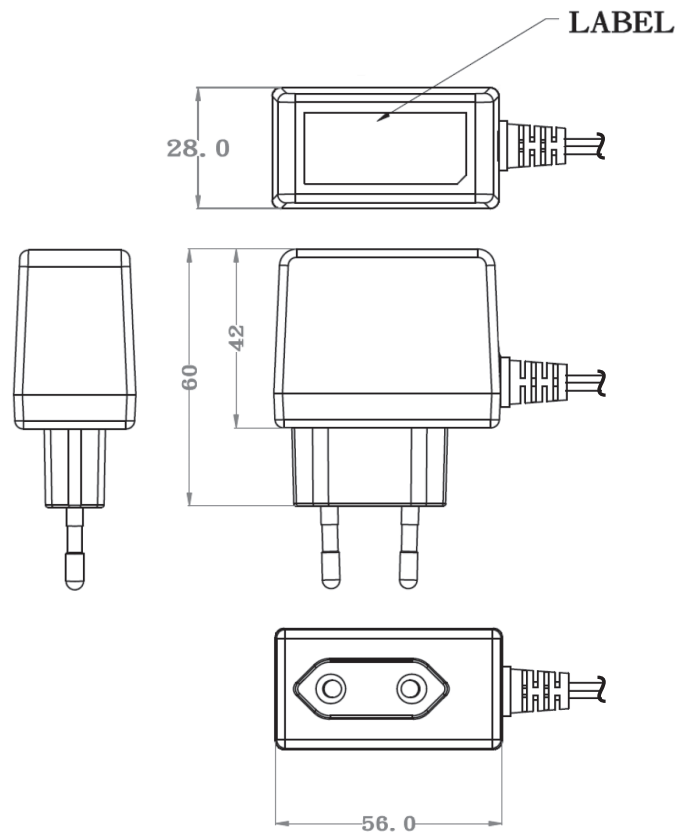
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		80	%
storage humidity	non-condensing	10		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	56 x 28 x 60				mm
inlet plug	Europe				
weight			96		g

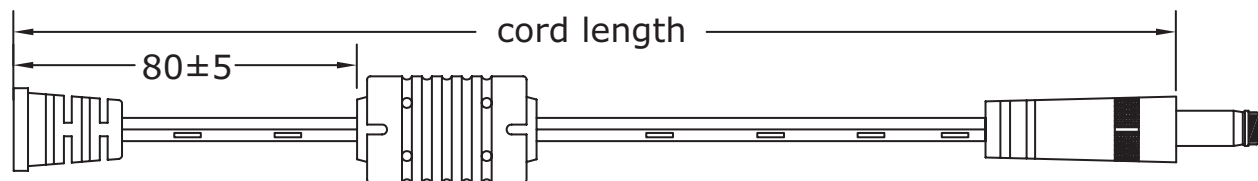
MECHANICAL DRAWING

units: mm



DC CORD

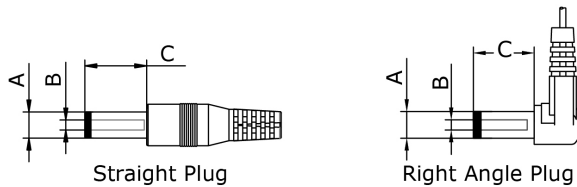
units: mm

**Table 1**

MODEL NO.	CABLE	CORD LENGTH
SWI6-3.3-E	UL2468	1,500 mm ±30
SWI6-5-E	UL2468	1,500 mm ±30
SWI6-5.9-E	UL2468	1,500 mm ±30
SWI6-7.5-E	UL2468	1,500 mm ±30
SWI6-9-E	UL2468	1,500 mm ±30
SWI6-12-E	UL2468	1,500 mm ±30
SWI6-15-E	UL2468	1,500 mm ±30

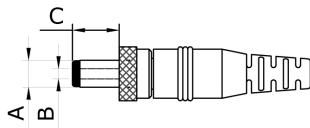
OUTPUT PLUG OPTIONS

Standard DC Plug



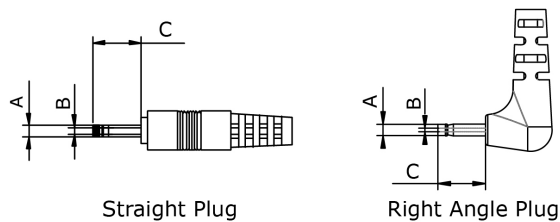
Size	A	B	C	Unit
5	5.5	2.1	9.5	mm
6	5.5	2.5	9.5	mm
7	3.5	1.35	9.5	mm
8	3.8	1.35	9.5	mm
9	3.8	1.05	9.5	mm

Locking DC Plug



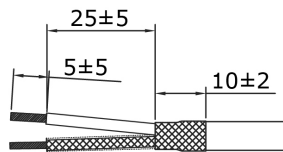
Size	A	B	C	Unit
10	5.5	2.1	9.5	mm
11	5.5	2.5	9.5	mm

EIAJ DC Plug

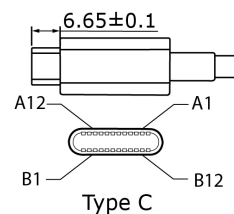
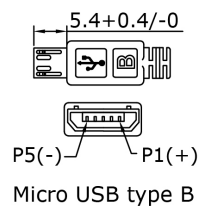


Size	EIAJ	A	B	C	Unit
12	EIAJ-1	2.35	0.7	9.5	mm
13	EIAJ-2	4.0	1.7	9.5	mm
14	EIAJ-3	4.75	1.7	9.5	mm

Stripped and Tinned

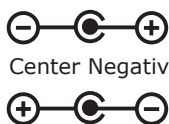


USB



XXX

Plug Polarity:
P = Center Positive
N = Center Negative



Plug Size:
X = See above plug options

Plug Angle:
"blank" = Straight
R = Right Angle

*Contact CUI for additional plug options

REVISION HISTORY

rev.	description	date
1.0	initial release	08/07/2015
1.01	added models	08/12/2015
1.02	updated drawing	12/16/2015
1.03	company logo updated	09/21/2020
1.04	updated dc plug options & model table	12/04/2020
1.05	safeties updated	12/09/2020

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.

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