


CUI INC

a bel group

date 12/02/2024

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SERIES: SWI3-E | **DESCRIPTION:** AC-DC POWER SUPPLY

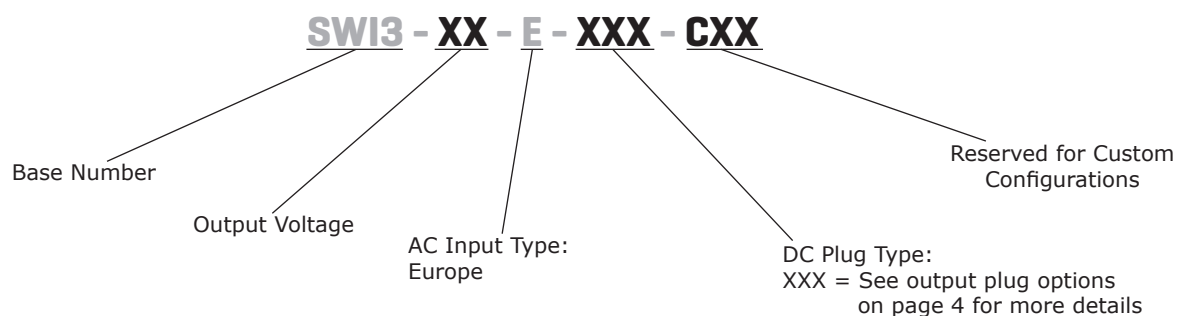
FEATURES

- up to 3 W continuous power
- IEC 62368 compliant
- CoC Tier 2 compliant
- universal input voltage range
- ultra-compact case
- no load power consumption < 0.075 W
- over voltage, over current, and short circuit protections
- CE, GS safety approvals
- Class II construction


MODEL

MODEL	input voltage	input frequency	output voltage	output current	output power	ripple and noise ¹	efficiency level ²		no load power consumption
	range (Vac)	range (Hz)	nom (Vdc)	max (A)	max (W)	max (mVp-p)	average ³ (%)	10% (%)	typ (W)
SWI3-5-E	90 ~ 264	47 ~ 63	5	0.6	3	150	74.9	66.2	0.05

Notes: 1. At full load, nominal AC input voltage, 25°C, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF and 10 µF capacitors to ground.
 2. CoC Tier 2 compliant.
 3. Average efficiency is measured at 25%, 50%, 75%, and 100% load.

PART NUMBER KEY


INPUT

parameter	conditions/description	min	typ	max	units
voltage		90	100~240	264	Vac
frequency		47	50~60	63	Hz
current	at nominal input voltage			0.2	A
leakage current	at nominal input voltage & frequency			0.25	mA
no load power consumption	at 115/230 Vac, 60/50 Hz			0.075	W

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation		4.9		5.4	Vdc
load regulation		4.9		5.4	Vdc
start-up time	at 115 Vac			3	s

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over current protection	auto recovery			1	A
short circuit protection					

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 1 minute		3,000 4,242		Vac Vdc
safety approvals	GS (EN 62368)				
EMI/EMC	CE (EN 55032, CISPR 32, EN 61000-3-2, EN 61000-3-3, EN 55024, CISPR 24)				
MTBF	as per Telcordia SR-332 (Issue 2), at 115/230 Vac, full load, 0°C~40°C	50,000			hours
RoHS	yes				

ENVIRONMENTAL

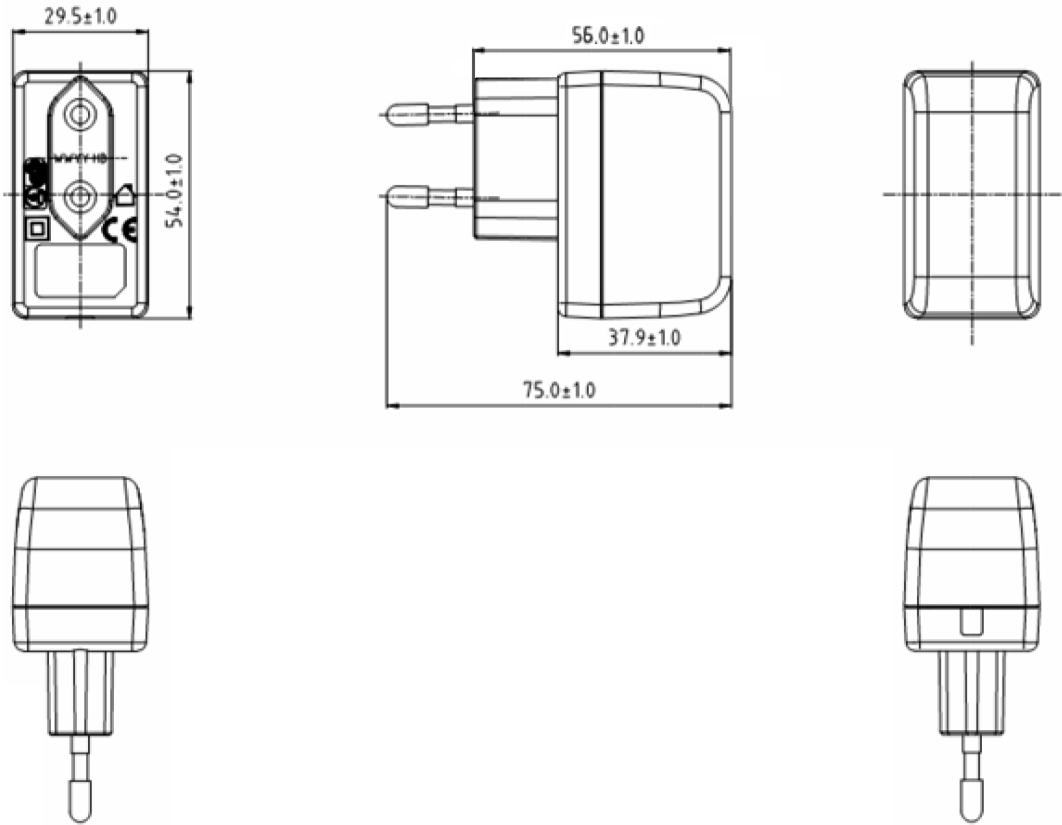
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	5		95	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	54.0 x 29.5 x 56.0				mm
inlet plug	Europe				
weight			51		g

MECHANICAL DRAWING

units: mm



DC CORD

units: mm

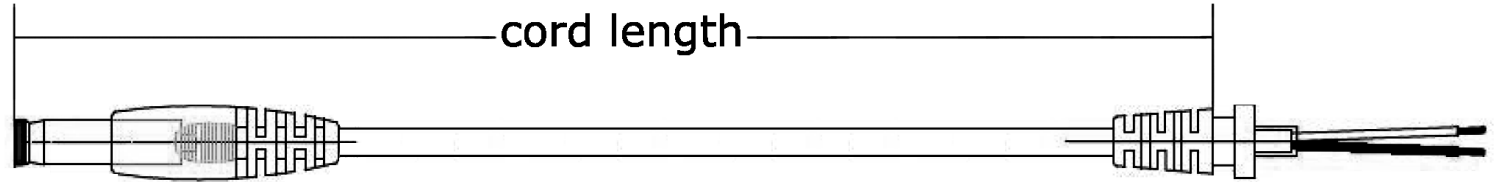


Table 1

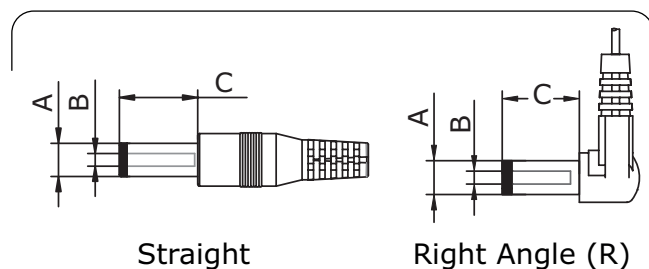
MODEL NO.	CABLE	CORD LENGTH
SWI3-5-E	UL1185, 24 AWG	1,500 mm ±50

DC PLUG TYPE PART NUMBER KEY

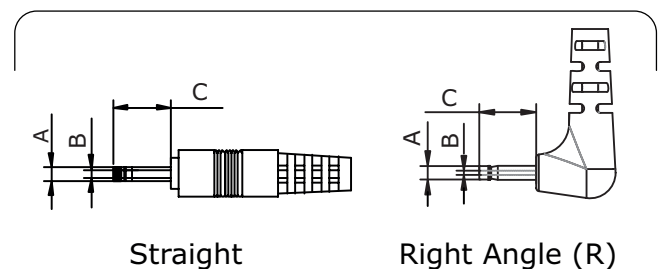
XXX								
Plug Polarity: P = Center Positive  N = Center Negative 			Plug Code: X = Choose a code from the options below			Plug Angle: "blank" = Straight R = Right Angle		
Plug Polarity		Code		Dimensions (mm)			Plug Angle	
Center Pos.	Center Neg.	Option	Type	A	B	C	Straight	Right
•	•	5	Standard	5.5	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
N/A	N/A	MUB	USB	Micro USB Type B			•	N/A

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

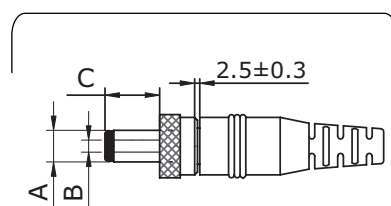
Standard



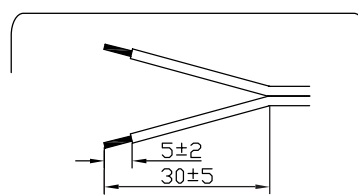
EIAJ



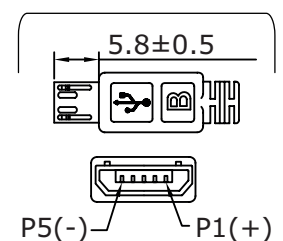
Locking



Stripped & Tinned



USB



REVISION HISTORY

rev.	description	date
1.0	initial release	09/14/2017
1.01	company logo updated	09/21/2020
1.02	logo and model table updated	11/27/2020
1.03	safety line updated	12/09/2020
1.04	plug polarity symbols updated	09/16/2021
1.05	dc plugs updated	04/25/2022
1.06	datasheet updated	12/02/2024

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.