

**SERIES:** SWI10-N | **DESCRIPTION:** AC-DC POWER SUPPLY

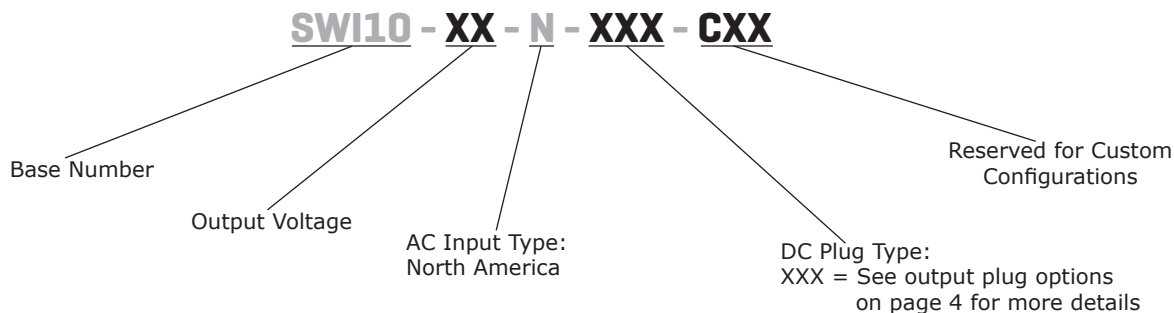
**FEATURES**

- up to 12 W continuous power
- DoE Level VI efficiency
- universal input voltage range
- ultra-compact case
- no load power consumption < 0.075 W
- over voltage, over current, and short circuit protections
- UL/cUL, PSE, FCC safety approvals
- Class II construction



MODEL	output voltage	output current max	output power max	ripple and noise <sup>1</sup> max	efficiency level
	(Vdc)	(A)	(W)	(mVp-p)	
SWI10-5-N	5	2	10	250	VI
SWI10-12-N	12	1	12	200	VI

Notes: 1. At full load, 25°C, at 115/230 Vac input, 20 MHz bandwidth oscilloscope, output terminated with 0.1  $\mu$ F and 10  $\mu$ F capacitors.

**PART NUMBER KEY**


**INPUT**

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current	at nominal input voltage			0.5	A
leakage current	at nominal input voltage & frequency			0.25	mA
no load power consumption	at 115/230 Vac			0.075	W

**OUTPUT**

parameter	conditions/description	min	typ	max	units
regulation			±5		%
start-up time	at nominal input voltage			3	s
rise time	at nominal input voltage			100	ms

**PROTECTIONS**

parameter	conditions/description	min	typ	max	units
over voltage protection	5 Vdc output model			12	Vdc
	12 Vdc output model			25	Vdc
over current protection	output shut down, auto recovery			4.5	A
	5 Vdc output model			2.5	A
	12 Vdc output model				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		Vac
			4,242		Vdc
safety approvals	UL/cUL, PSE				
EMI/EMC	FCC Part 15B Class B				
MTBF	as per Telcordia SR-332 (Issue 2), at 115/230 Vac, full load, 0°C~40°C	50,000			hours
RoHS	2011/65/EU				

**ENVIRONMENTAL**

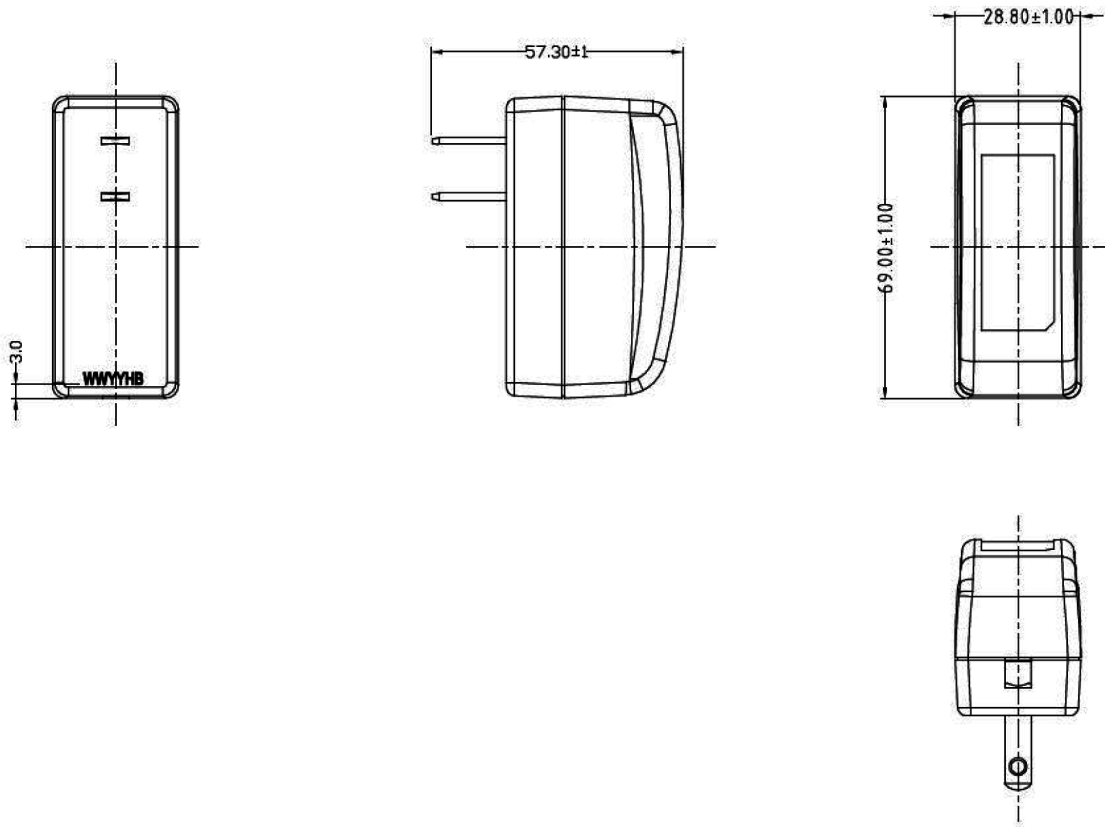
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		70	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	20		80	%

## MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	69 x 28.8 x 57.3				mm
inlet plug	North America, 2-pin				
weight			90		g

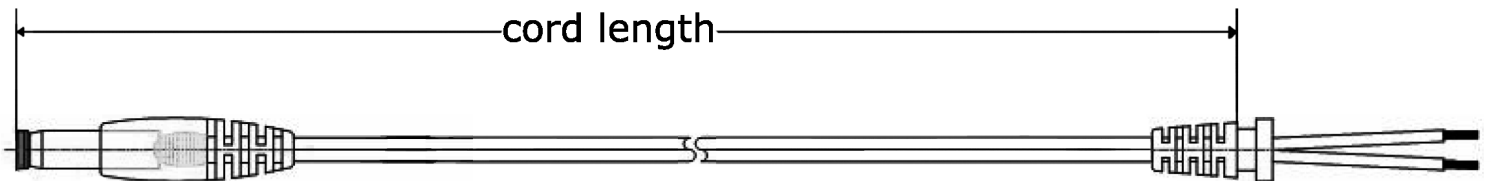
## MECHANICAL DRAWING

units: mm



## DC CORD

units: mm





**Table 1**

MODEL NO.	CABLE	CORD LENGTH
SWI10-5-N	UL2468, 20 AWG	1,500 mm ±50
SWI10-12-N	UL2468, 22 AWG	1,500 mm ±50

## DC PLUG TYPE PART NUMBER KEY

**XXX**

**Plug Polarity:**  
 P = Center Positive  
  
 N = Center Negative  


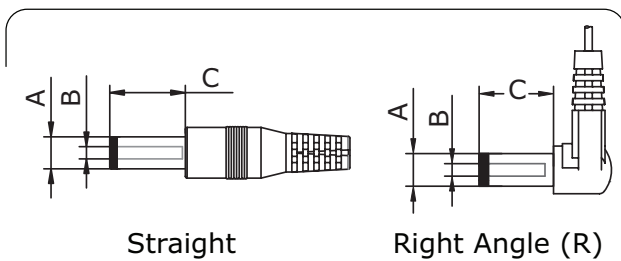
**Plug Code:**  
 X = Choose a code from the options below

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

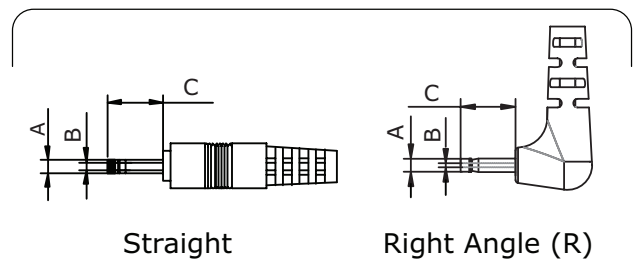
Plug Polarity		Code		Dimensions (mm)			Plug Angle	
Center Pos.	Center Neg.	Option	Type	A	B	C	Straight	Right
•	•	5	Standard	5.5	2.1	9.5	•	•
•	•	6	Standard	5.5	2.5	9.5	•	•
•	•	7	Standard	3.5	1.35	9.5	•	•
•	•	8	Standard	3.8	1.35	9.5	•	•
•	•	9	Standard	3.8	1.05	9.5	•	•
•	•	10	Locking	5.5	2.1	9.5	•	N/A
•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

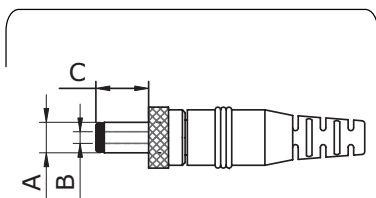
### Standard



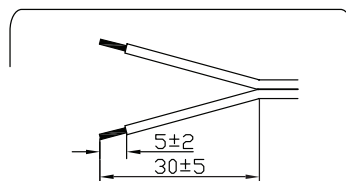
### EIAJ



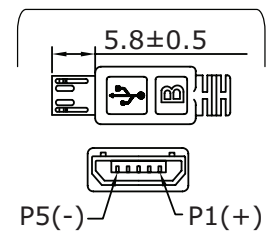
### Locking



### Stripped & Tinned



### USB



## REVISION HISTORY

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rev.	description	date
1.0	initial release	12/12/2016
1.01	company logo updated	09/21/2020

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



# CUI INC

a bel group

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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.