CUI INC
a bel group

SERIES: SWH15-E | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

- up to 15 W continuous power
- universal input voltage range
- no load power consumption < 0.1 W
- over current and short circuit protections
- IEC 61558 & EN 60335 compliant
- custom designs available

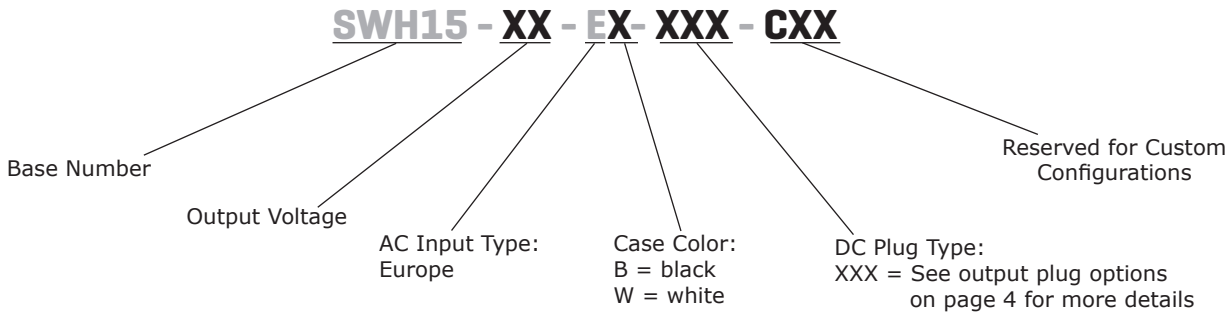
CE

MODEL

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% (%)	max (W)
SWH15-5-E	90 ~ 264	47 ~ 63	5	2.0	10.0	200	78.7	65.0	0.1
SWH15-5B-E	90 ~ 264	47 ~ 63	5	3.0	15.0	200	81.4	65.0	0.1
SWH15-9-E	90 ~ 264	47 ~ 63	9	1.5	13.5	200	83.6	65.0	0.1
SWH15-12-E	90 ~ 264	47 ~ 63	12	1.0	12.0	200	83.0	65.0	0.1
SWH15-24-E	90 ~ 264	47 ~ 63	24	0.6	14.4	200	83.9	65.0	0.1

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. Average efficiency is measured at 25%, 50%, 75%, and 100% load at 115 Vac & 230 Vac input.

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				0.5	A
leakage current	at 240 Vac, 50 Hz			0.25	mA
no load power consumption				0.1	W

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation			±1		%
load regulation			+7/-5		%
start-up time	at 100 and 240 Vac, full load			3	s
hold-up time	at 115 Vac/60 Hz at 230 Vac/50 Hz	1 3			ms ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over current protection	auto recovery, hiccup				
short circuit protection	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
safety approvals	IEC: 61558, 61558-2-16 EN 60335				
EMI/EMC	EN 55014-1, EN 55014-2				
MTBF	at full load, 25°C	50,000			hours
RoHS	yes				

ENVIRONMENTAL

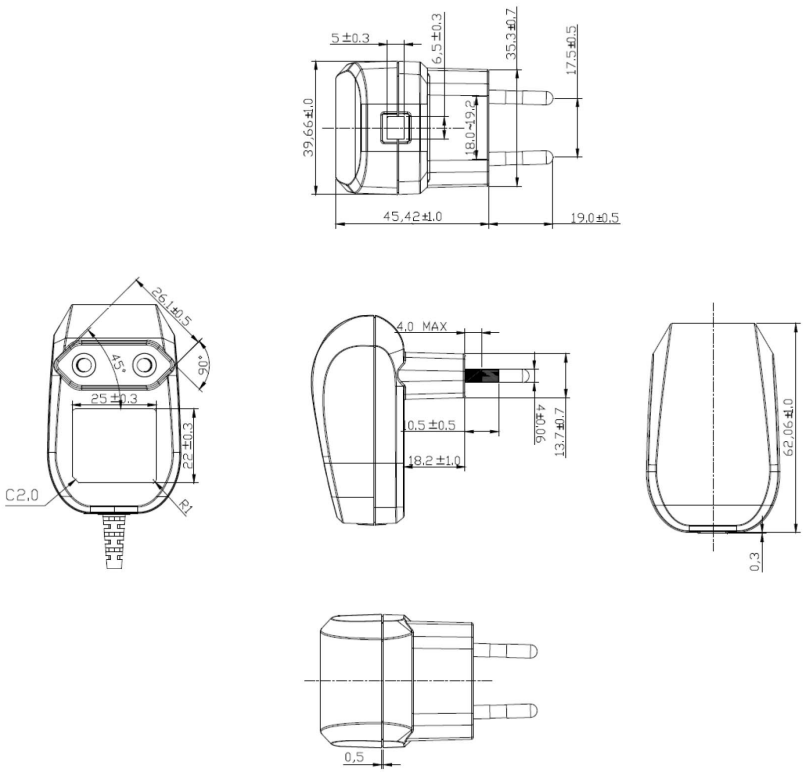
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		70	°C
operating humidity		10		95	%
storage humidity		5		95	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	62.06 x 39.66 x 45.42				mm
inlet plug	Europe, 2 pin				
weight			80		g

MECHANICAL DRAWING

units: mm



DC CORD

units: mm

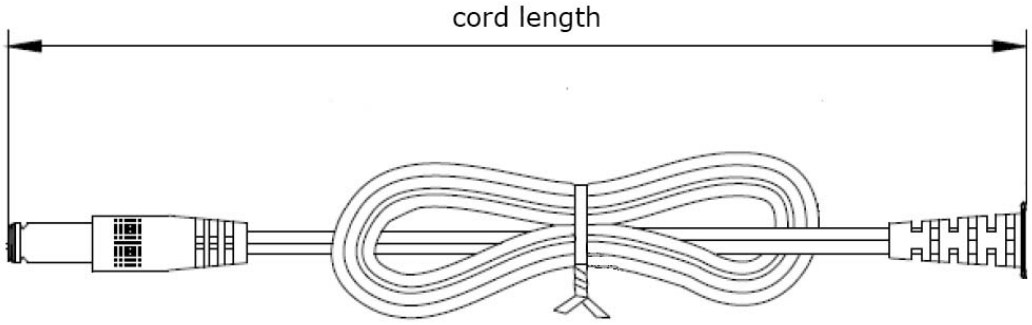


Table 1

MODEL NO.	CABLE	CORD LENGTH
SWH15-5-E	UL2468, 20 AWG	1,800 mm ±100
SWH15-5B-E	UL2468, 18 AWG	1,800 mm ±100
SWH15-9-E	UL2468, 20 AWG	1,800 mm ±100
SWH15-12-E	UL2468, 20 AWG	1,800 mm ±100
SWH15-24-E	UL2468, 20 AWG	1,800 mm ±100

DC PLUG TYPE PART NUMBER KEY

X X X

Plug Polarity:
P = Center Positive

N = Center Negative

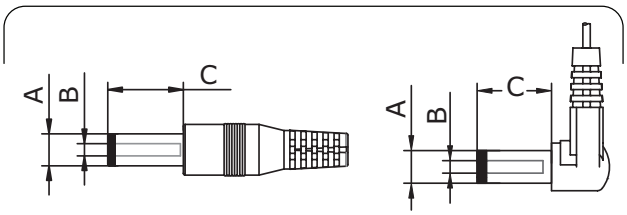
Plug Code:
X = Choose a code from the options below

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

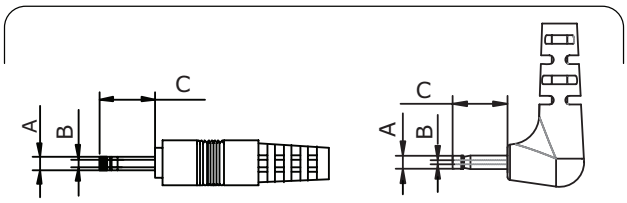
Note: 1. Contact CUI for additional plug options

Standard



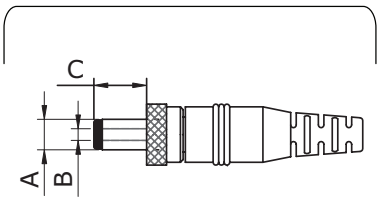
Straight Right Angle (R)

EIAJ

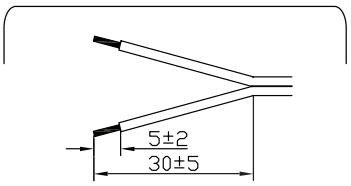


Straight Right Angle (R)

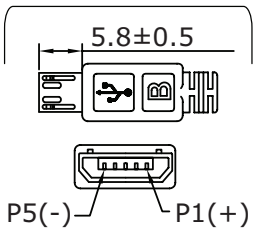
Locking



Stripped & Tinned



USB



REVISION HISTORY

rev.	description	date
1.0	initial release	11/23/2021

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

CUI INC
a bel group

Headquarters
20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com