CUI INC®

SERIES: SMI6B | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

- DoE Level VI, CoC Tier 2 efficiency
- up to 6 W power
- compact design
- interchangeable AC blades
- universal input (90~264 Vac)
- single regulated output from 5~15 Vdc
- over voltage and short circuit protections
- UL/cUL, GS, RCM, CCC, PSE safety approvals
- certified to 62368-1
- custom designs available

MODEL

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level[2]
SMI6B-5	5	1.2	6	300	VI
SMI6B-6	6	1.0	6	300	VI
SMI6B-9	9	0.66	5.94	300	VI
SMI6B-12	12	0.5	6	300	VI
SMI6B-15	15	0.4	6	300	VI

Notes: 1. At full load, 100-240 Vac input, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF and 10 µF capacitors.
2. CoC Tier 2 compliant

PART NUMBER KEY

SMI6B - XX - X - XXX - CXX

- **SMI6B** — Base Number
- **XX** — Output Voltage
- **X** — Blades:
  - 4 = North America, Europe, United Kingdom, and Australia blades included
  - V = North America, Europe, United Kingdom, Australia, and China blades included
  - N = North America blade included
  - E = Europe blade included
  - B = United Kingdom blade included
  - A = Australia blade included
  - C = China blade included
  - K = No blades included
- **XXX** — DC Plug Type:
  XXX = See output plug options on page 4 for more details
- **CXX** — Reserved for Custom Configurations

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				0.2	A
leakage current	at nominal AC input and 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			±5		%
load regulation			±5		%
start-up time	at 115 Vac input			3	s
rise time	at 90~264 Vac input			100	ms
hold-up time	at nominal input	5			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over current protection	output shut down, auto recovery 5 Vdc output models 6 Vdc output models 9, 12 Vdc output models 15 Vdc output models			 1.8 1.6 1.0 0.8	 A A A A
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 4,242		Vac Vdc
safety approvals	UL/cUL, GS, RCM, CCC, PSE				
EMI/EMC	FCC Part 15B Class B, CE				
MTBF	as per Telcordia SR-332, Issue 2 at 115/230 Vac, full load, 0~40°C	50,000			hours
RoHS	yes				

ENVIRONMENTAL

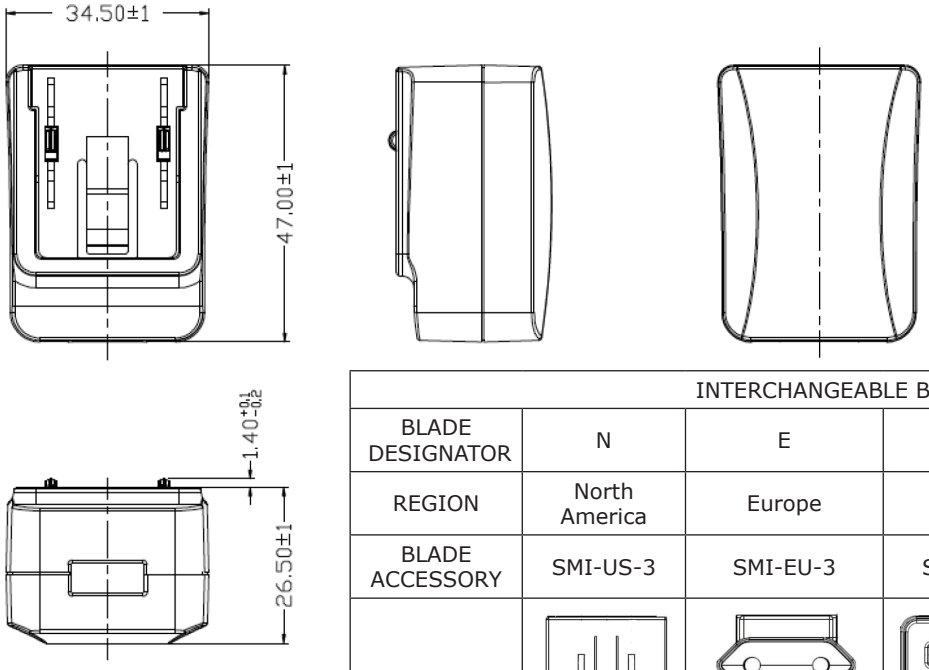
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	5		95	%

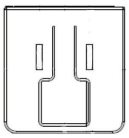
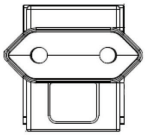
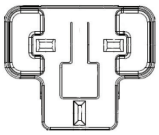
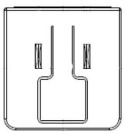
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	47 x 34.5 x 26.5				mm
inlet plug	interchangeable blades (North America, Europe, UK, Australia, China)				
weight	5 Vdc output models (without interchangeable blades) all other models (without interchangeable blades)		54 50		g g

MECHANICAL DRAWING

units: mm
tolerance: ±1 mm



INTERCHANGEABLE BLADES					
BLADE DESIGNATOR	N	E	B	A	C
REGION	North America	Europe	UK	Australia	China
BLADE ACCESSORY	SMI-US-3	SMI-EU-3	SMI-UK-3	SMI-AU-3	SMI-CN-3
BLADE					

DC CORD

units: mm

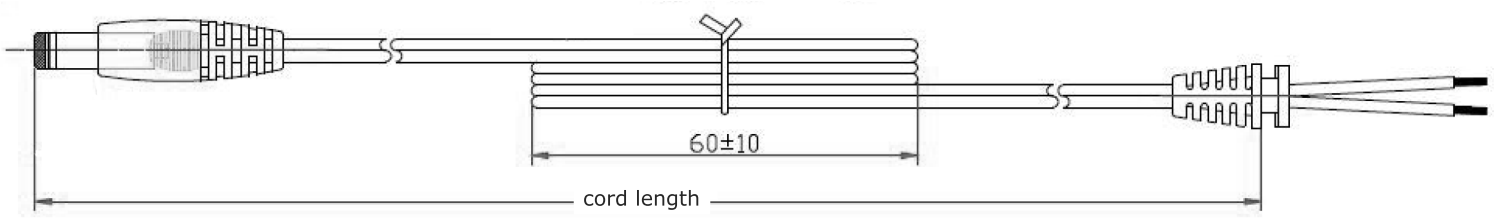


Table 1

MODEL NO.	CABLE	CORD LENGTH
SMI6B-5	UL2468, 22 AWG	1,530 mm ±50
SMI6B-6	UL2468, 22 AWG	1,530 mm ±50
SMI6B-9	UL2468, 24 AWG	1,530 mm ±50
SMI6B-12	UL2468, 24 AWG	1,530 mm ±50
SMI6B-15	UL2468, 24 AWG	1,530 mm ±50

DC PLUG TYPE PART NUMBER KEY

X X X

Plug Polarity:
P = Center Positive

N = Center Negative

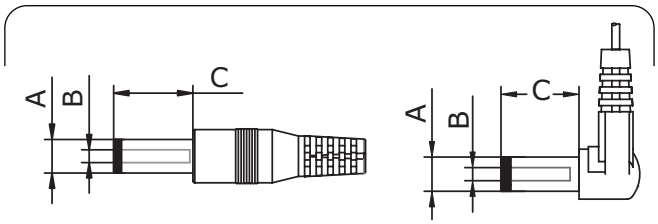
Plug Code:
X = Choose a code from the options below

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	•	•
•	•	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	CUB	USB	USB Type C			•	N/A
N/A	N/A	MUB	USB	Micro USB Type B			•	N/A

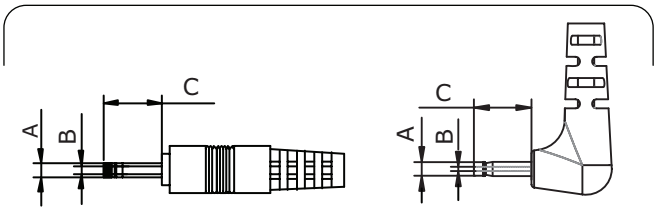
Note: 1. Contact CUI for additional plug options

Standard



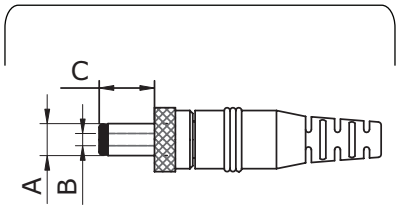
Straight Right Angle (R)

EIAJ

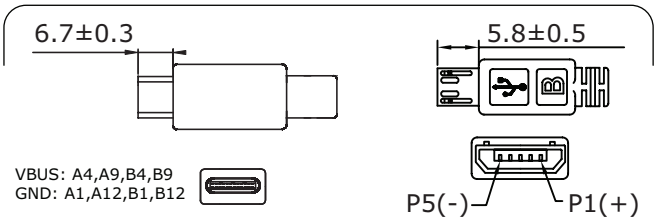


Straight Right Angle (R)

Locking



USB



USB Type C Micro USB Type B

REVISION HISTORY

rev.	description	date
1.0	initial release	06/04/2019

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

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Данный компонент на территории Российской Федерации

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http://moschip.ru/get-element

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