



SERIES: SMI6B | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

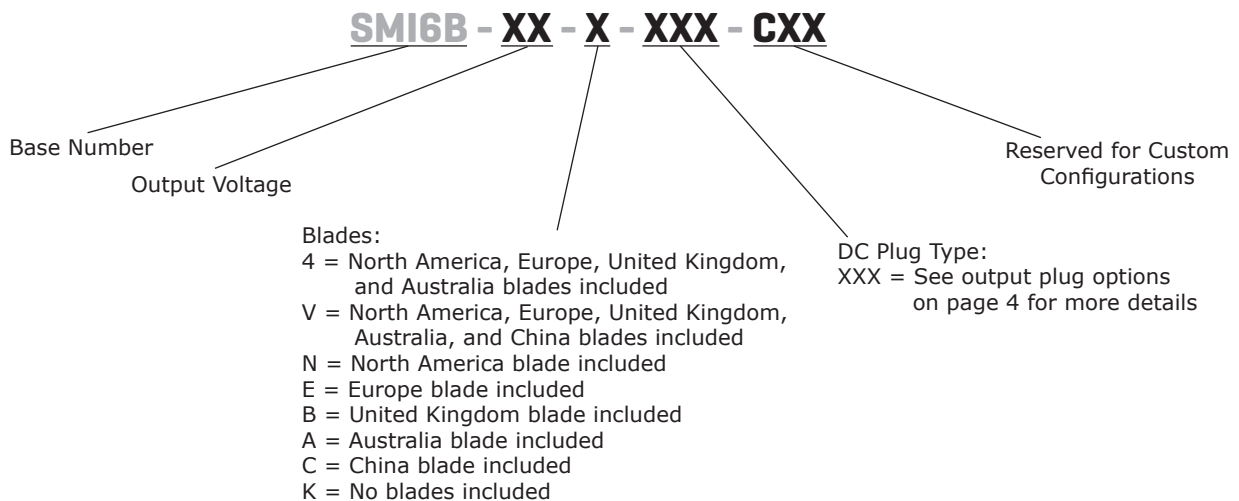
- DoE Level VI, CoC Tier 2 efficiency
- up to 6 W power
- compact design
- interchangeable AC blades
- universal input (90~264 Vac)
- single regulated output from 5~15 Vdc
- over voltage and short circuit protections
- UL/cUL, GS, RCM, CCC, PSE safety approvals
- certified to 62368-1
- custom designs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



| MODEL | output voltage | output current | output power | ripple and noise ¹ | efficiency level ² |
|----------|----------------|----------------|--------------|-------------------------------|-------------------------------|
| | (Vdc) | max (A) | max (W) | max (mVp-p) | |
| 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



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 | | | 1.8 | A |
| | 6 Vdc output models | | | 1.6 | A |
| | 9, 12 Vdc output models | | | 1.0 | A |
| | 15 Vdc output models | | | 0.8 | 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

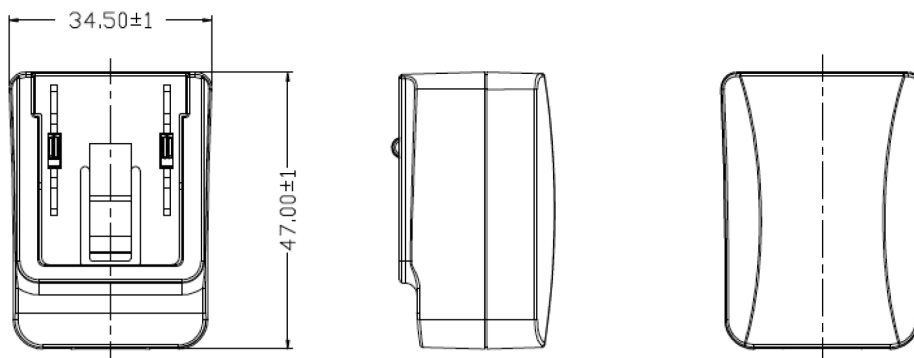
| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | | 0 | | 40 | °C |
| storage temperature | | -20 | | 60 | °C |
| operating humidity | non-condensing | 20 | | 85 | % |
| storage humidity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

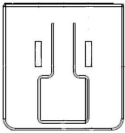
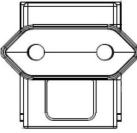
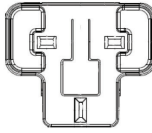
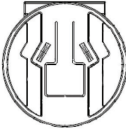

MECHANICAL

| 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) | | 54 | | g |
| | all other models (without interchangeable blades) | | 50 | | 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

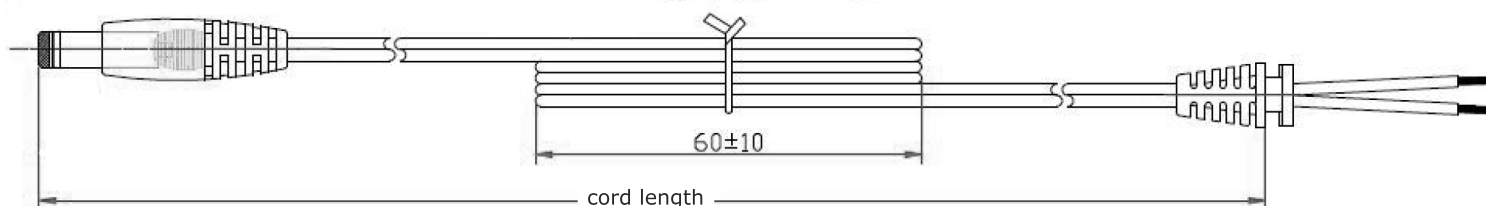




Table 1

| 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

XXX

Plug Polarity:
P = Center Positive

N = Center Negative


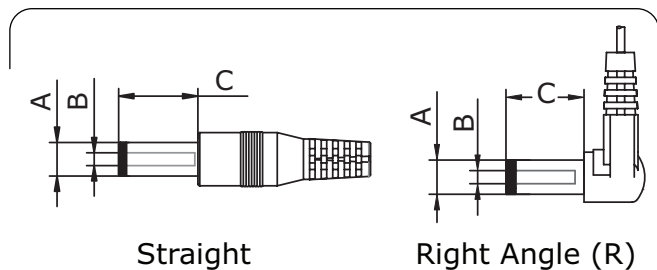
Plug Code:
X = Choose a code from the options below

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

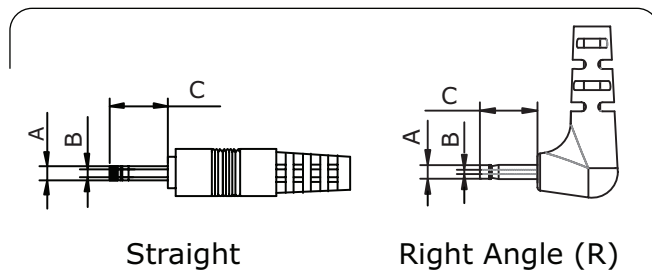
| Plug Polarity | | Code | Type | Dimensions (mm) | | | Plug Angle | |
|---------------|-------------|------|----------|------------------|------|-----|------------|----------|
| Center Pos. | Center Neg. | | | Option | A | B | C | Straight |
| • | • | 5 | Standard | 5.5 | 2.1 | 9.5 | • | • |
| • | • | 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

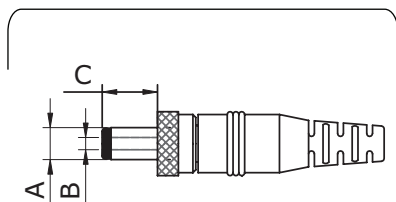
Standard



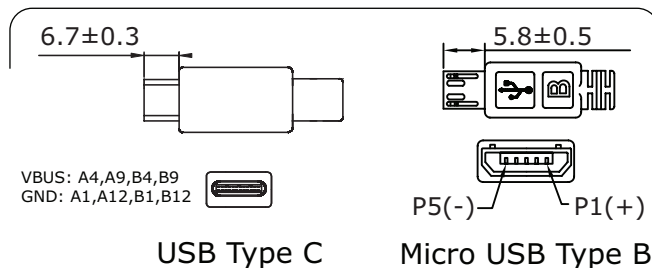
EIAJ



Locking



USB



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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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.

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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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