

## SERIES: SMM36 | DESCRIPTION: AC-DC POWER SUPPLY

### FEATURES

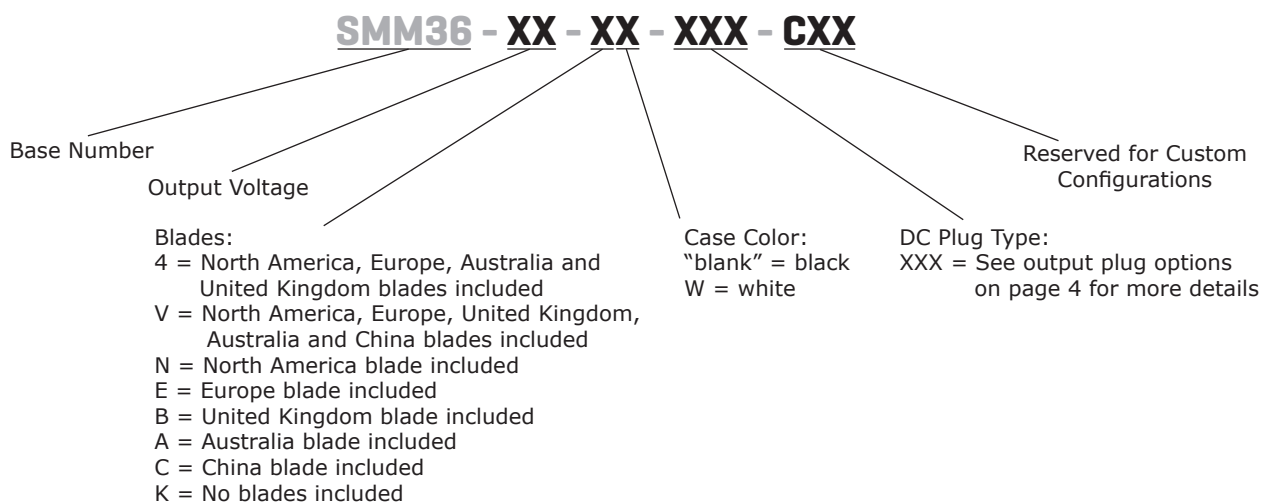
- up to 36 W continuous power
- meets DoE Level VI, CoC Tier 2, and EU 2019/1782 efficiency
- universal input (100~240 Vac)
- over voltage, over current, and short circuit protections
- interchangeable AC blades for global use
- UL/CUL, CE and UKCA safety approvals
- certified to IEC, EN 60601-1
- custom designs available



| MODEL    | output voltage<br>(Vdc) | output current<br>max<br>(A) | output power<br>max<br>(W) | ripple and noise <sup>1</sup><br>max<br>(mVp-p) | efficiency level |
|----------|-------------------------|------------------------------|----------------------------|-------------------------------------------------|------------------|
| SMM36-5  | 5                       | 5                            | 25                         | 80                                              | VI               |
| SMM36-9  | 9                       | 4                            | 36                         | 90                                              | VI               |
| SMM36-12 | 12                      | 3                            | 36                         | 120                                             | VI               |
| SMM36-15 | 15                      | 2.4                          | 36                         | 150                                             | VI               |
| SMM36-24 | 24                      | 1.5                          | 36                         | 240                                             | VI               |

Notes: 1. At full load, 100~240 Vac input, 20 MHz bandwidth oscilloscope, output terminated with a 0.1  $\mu$ F ceramic and a 47  $\mu$ F electrolytic capacitor.

### 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 115 Vac, full load             |     |         | 1   | A     |
|                           | at 230 Vac, full load             |     |         | 0.4 | A     |
| inrush current            | at 230 Vac, cold start, full load |     |         | 70  | A     |
| leakage current           | 264 Vac/60 Hz                     |     |         | 0.1 | mA    |
| no load power consumption | at 115/230 Vac, 60/50 Hz          |     |         | 0.1 | W     |

## OUTPUT

| parameter       | conditions/description  | min | typ | max | units |
|-----------------|-------------------------|-----|-----|-----|-------|
| load regulation | 5V output model         |     |     | ±6  | %     |
|                 | all other output models |     |     | ±5  | %     |

## PROTECTIONS

| parameter                | conditions/description | min | typ | max | units |
|--------------------------|------------------------|-----|-----|-----|-------|
| over voltage protection  | auto recovery          |     |     |     |       |
|                          | 5V output model        |     |     | 12  | V     |
|                          | 9V output model        |     |     | 18  | V     |
|                          | 12V output model       |     |     | 22  | V     |
|                          | 15V output model       |     |     | 27  | V     |
|                          | 24V output model       |     |     | 45  | V     |
| over current protection  | auto recovery          |     |     |     |       |
|                          | 5V output model        |     |     | 10  | A     |
|                          | 9V output model        |     |     | 8   | A     |
|                          | 12V output model       |     |     | 6   | A     |
|                          | 15V output model       |     |     | 4.8 | A     |
|                          | 24V output model       |     |     | 3   | A     |
| short circuit protection | auto recovery          |     |     |     |       |

## SAFETY & COMPLIANCE

| parameter         | conditions/description                        | min     | typ   | max | units |
|-------------------|-----------------------------------------------|---------|-------|-----|-------|
| isolation voltage | input to output, for 1 minute, 10 mA max      |         | 4,000 |     | Vac   |
| safety approvals  | certified to 60601-1: IEC, EN<br>cUL/UL, UKCA |         |       |     |       |
| EMI/EMC           | CE / FCC (conduction & radiation Class B)     |         |       |     |       |
| MTBF              | as per Telcordia SR-322, at 25°C              | 300,000 |       |     | hours |
| RoHS              | yes                                           |         |       |     |       |

## ENVIRONMENTAL

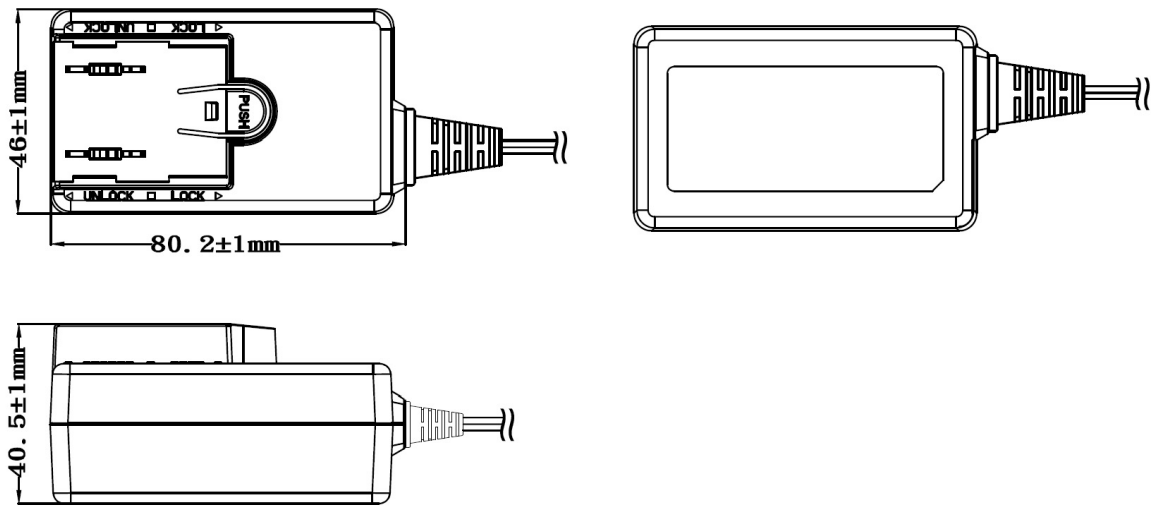
| parameter             | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature |                        | -20 |     | 40  | °C    |
| storage temperature   |                        | -20 |     | 80  | °C    |
| operating humidity    | non-condensing         | 20  |     | 80  | %     |
| storage humidity      | non-condensing         | 10  |     | 90  | %     |

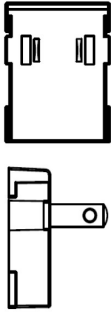
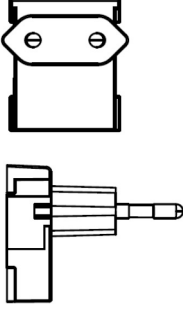
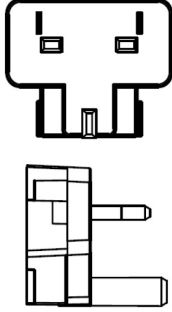
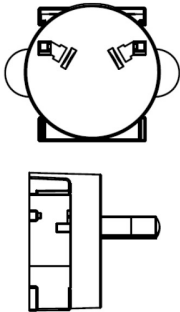
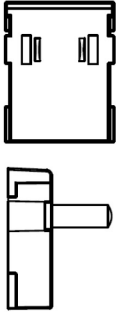
MECHANICAL

| parameter          | conditions/description                                                           | min | typ | max | units |
|--------------------|----------------------------------------------------------------------------------|-----|-----|-----|-------|
| dimensions         | 80.2 x 46.0 x 40.5                                                               |     |     |     | mm    |
| inlet plug         | interchangeable blades (North America, Europe, United Kingdom, Australia, China) |     |     |     |       |
| ac blade clip type | sliding clip                                                                     |     |     |     |       |
| weight             |                                                                                  |     | 135 |     | g     |

MECHANICAL DRAWING

units: mm  
tolerance: ±1 mm



| INTERCHANGEABLE BLADES |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| BLADE DESIGNATOR       | N                                                                                   | E                                                                                   | B                                                                                    | A                                                                                     | C                                                                                     |
| REGION                 | North America                                                                       | Europe                                                                              | UK                                                                                   | AU                                                                                    | China                                                                                 |
| BLADE ACCESSORY        | SMI-US-10                                                                           | SMI-EU-10                                                                           | SMI-UK-510                                                                           | SMI-AU-10                                                                             | SMI-CN-10                                                                             |
| BLADE                  |  |  |  |  |  |

DC CORD

units: mm

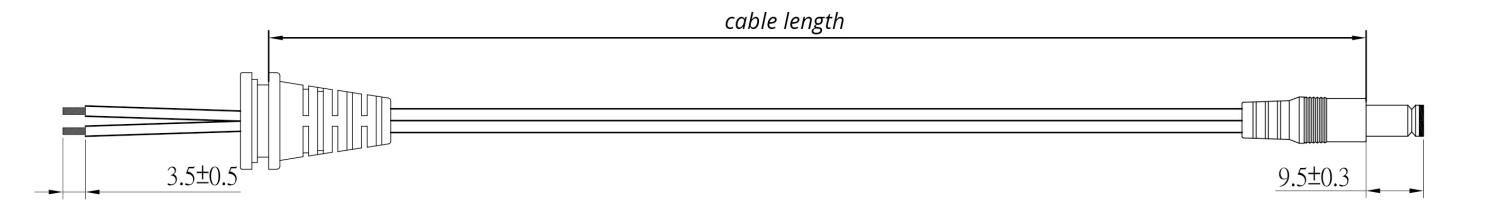
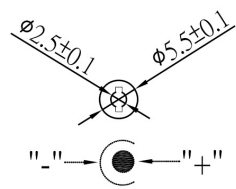


Table 1

| MODEL NO. | CABLE           | CORD LENGTH       |
|-----------|-----------------|-------------------|
| SMM36-5   | UL 2468, 16 AWG | 1,000 mm $\pm 30$ |
| SMM36-9   | UL 2468, 16 AWG | 1,000 mm $\pm 30$ |
| SMM36-12  | UL 2468, 18 AWG | 1,500 mm $\pm 30$ |
| SMM36-15  | UL 2468, 18 AWG | 1,500 mm $\pm 30$ |
| SMM36-24  | UL 2468, 20 AWG | 1,500 mm $\pm 30$ |



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

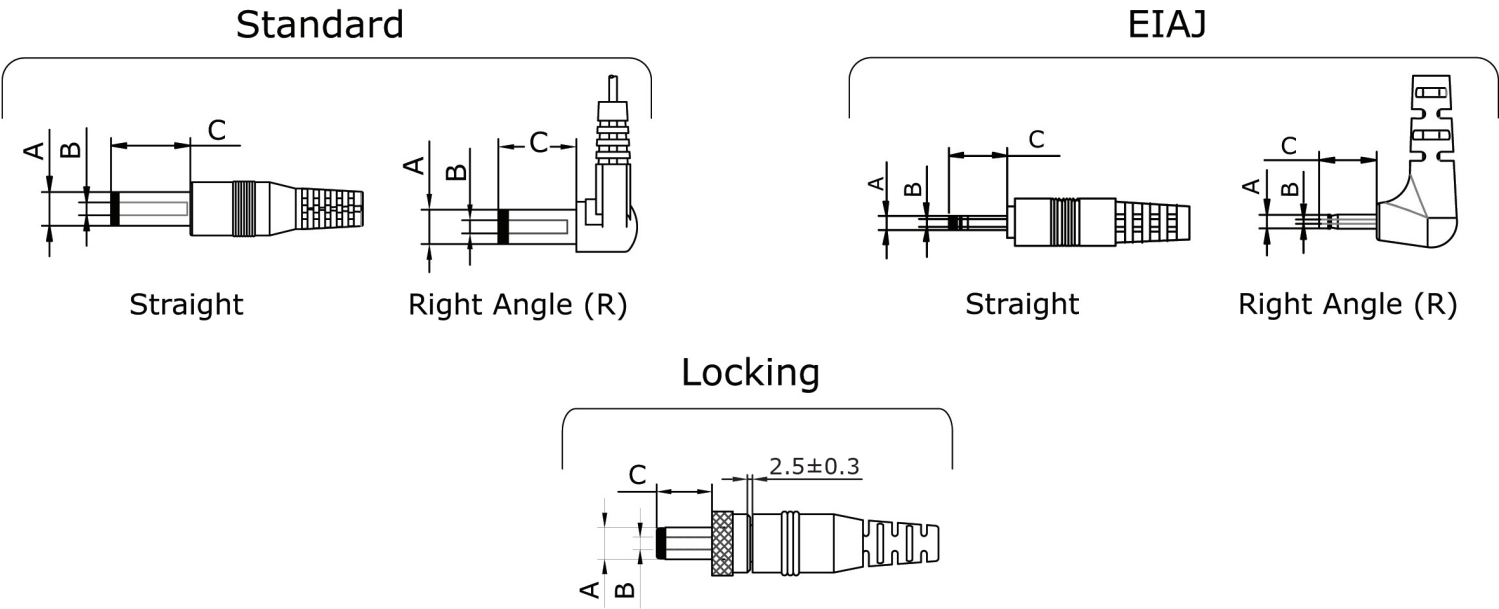
**Plug Angle:**  
"blank" = Straight  
R = Right Angle

| 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 | •          | •     |
| •             | •           | 10     | Locking <sup>2</sup> | 5.5             | 2.1  | 9.5 | •          | N/A   |
| •             | •           | 11     | Locking <sup>2</sup> | 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 | •          | •     |

Note:

1. Contact Bel for additional plug options

2. Maximum insertion depth is 10mm



## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 09/17/2026 |

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

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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.