

SERIES: SMI45C | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

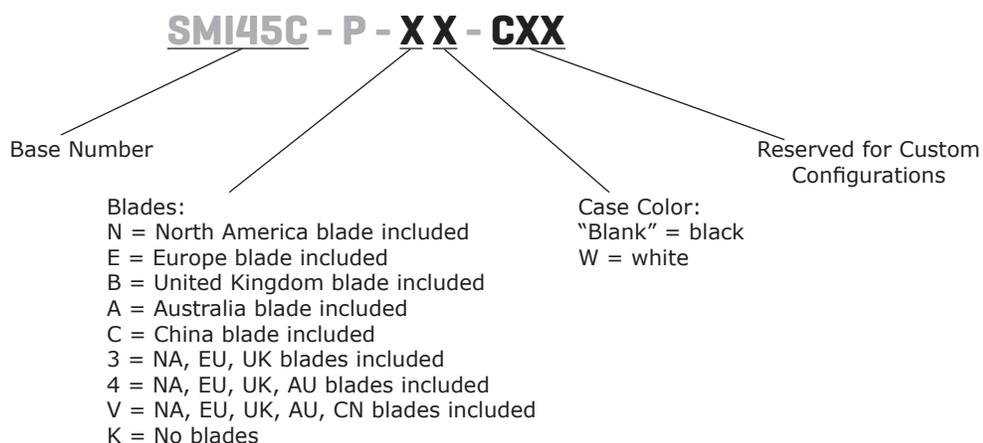
- up to 45 W continuous power
- 5 ~ 20 Vdc output
- PD 3.0 compliant
- UL 62368 certified
- 0 ~ 40 °C ambient operating temperature range
- over voltage, over current and short circuit protections
- universal input voltage range
- custom designs available



| MODEL | output voltage | output current | output power | ripple and noise ¹ | efficiency level ² |
|--------|----------------|----------------|--------------|-------------------------------|-------------------------------|
| | nom (Vdc) | max (A) | max (W) | max (mVp-p) | average (%) |
| SMI45C | 5 | 3.0 | 15 | 250 | 81.39 |
| | 9 | 3.0 | 27 | 250 | 86.62 |
| | 12 | 3.0 | 36 | 250 | 87.4 |
| | 15 | 3.0 | 45 | 250 | 87.73 |
| | 20 | 2.25 | 45 | 300 | 87.73 |

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, each output terminated with 0.1 µF multilayer and 10 µF low ESR electrolytic capacitors.
2. Average efficiency is measured at 25%, 50%, 75%, and 100% load.

PART NUMBER KEY



INPUT

| parameter | conditions/description | min | typ | max | units |
|---------------------------|------------------------|-----|---------|-------|-------|
| voltage | | 90 | 100~240 | 264 | Vac |
| frequency | | 47 | 50~60 | 63 | Hz |
| current | | | | 1.5 | A |
| leakage current | | | | 0.25 | mA |
| no load power consumption | | | | 0.067 | W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|-----------------|------------------------|-----|-----|-----|-------|
| load regulation | | | ±5 | | % |
| start-up time | | | | 3 | s |
| rise time | at 90~264 Vac | | | 100 | ms |
| hold-up time | at full load | 5 | | | ms |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|--------------------------|--|-----|-----|----------|--------|
| over voltage protection | 20 Vdc output model | | | 25 | V |
| | 5 Vdc output model | | | 8 | V |
| over current protection | hiccup mode | | | | |
| | 20 Vdc output model all other output models | | | 3.2 4 | A A |
| under voltage protection | primary under voltage lockout, remove secondary under voltage protection | | | | |
| short circuit protection | auto recovery, hiccup mode | | | | |

SAFETY & COMPLIANCE

| parameter | conditions/description | min | typ | max | units |
|----------------------|---|--------|-------|-----|-------|
| isolation voltage | input to output for 1 minute, 10 mA max | | 3,000 | | Vac |
| | | | 4,242 | | Vdc |
| isolation resistance | input to output for 1 minute at 500 Vdc & 10 mA | 20 | | | MΩ |
| safety approvals | UL/CUL (UL 62368-1), UKCA (BS EN 62368-1), TUV-GS (EN 62368-1), PSE (J62368-1) | | | | |
| EMI/EMC | FCC (Part 15 Subpart B Class B, ICES-003 Issue 7), CE (BS EN 55032), PSE (J55032) | | | | |
| MTBF | as per Telcordia Technologies SR-332 (Issue 2), at 25°C | 50,000 | | | hours |
| RoHS | yes | | | | |

ENVIRONMENTAL

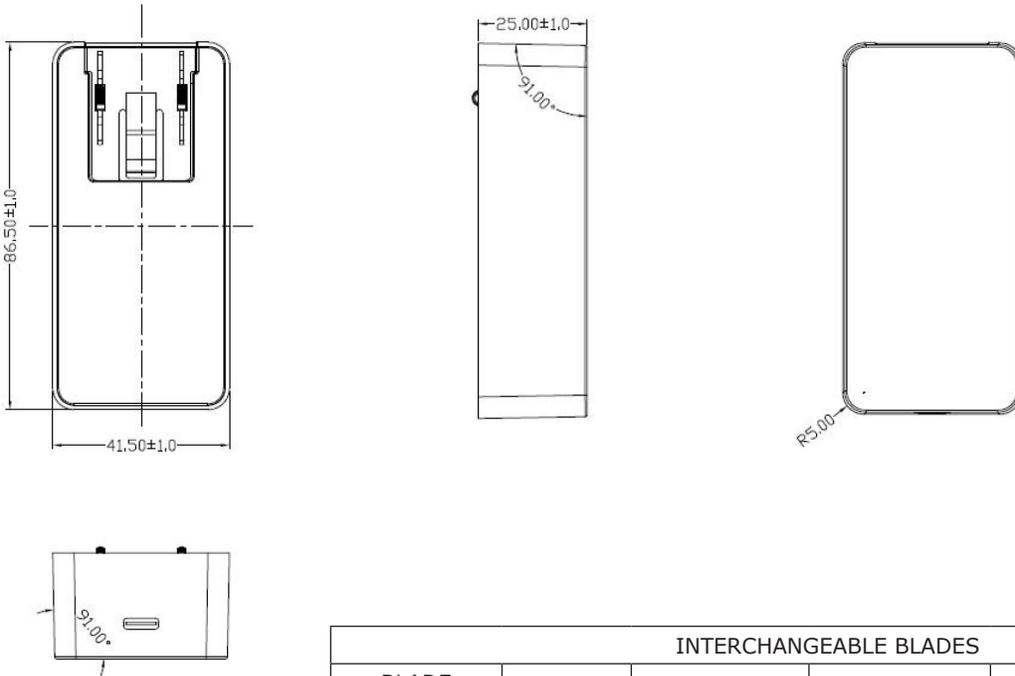
| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | | 0 | | 45 | °C |
| storage temperature | | -20 | | 60 | °C |
| operating humidity | non-condensing | 20 | | 85 | % |
| storage humidity | non-condensing | 5 | | 90 | % |

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|--------------------|---|-----|-----|-----|-------|
| dimensions | 87.5 (L) x 42.5 (W) x 28.2 (H) | | | | mm |
| inlet plug | interchangeable blades (NA, EU, UK, AU, CN) | | | | |
| ac blade clip type | hidden clip | | | | |
| weight | without blades | | 109 | | g |

MECHANICAL DRAWING

units: mm
tolerance: ±1.0 mm



| INTERCHANGEABLE BLADES | | | | | |
|------------------------|---------------|----------|----------|-----------|----------|
| BLADE DESIGNATOR | N | E | B | A | C |
| REGION | North America | Europe | UK | Australia | China |
| BLADE ACCESSORY | SMI-US-7 | SMI-EU-7 | SMI-UK-7 | SMI-AU-7 | SMI-CN-7 |
| BLADE | | | | | |

REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 10/10/2023 |

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.

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