

SERIES: SWI45C-B | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- up to 45 W continuous power
- universal input voltage range
- integrated USB Type C receptacle
- USB Power Delivery (PD) 3.0 compliant
- certified to EN 62368-1
- custom designs available

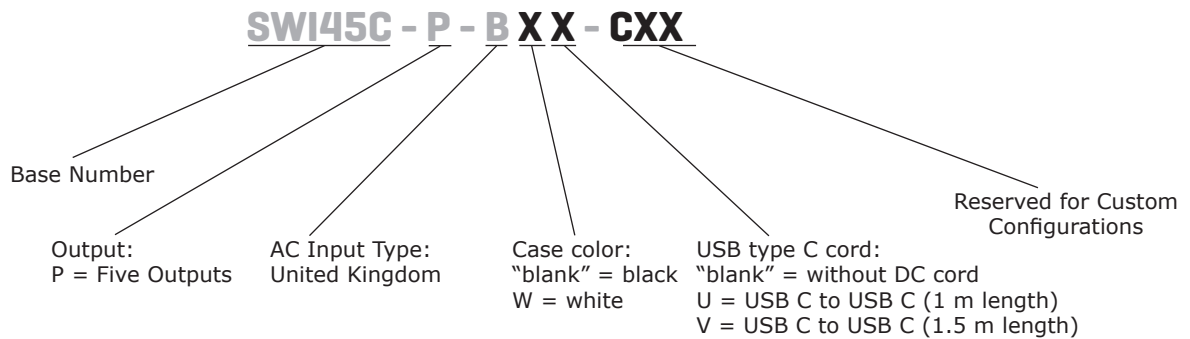


MODEL

| MODEL | output voltage nom (Vdc) | output current max (A) | output power max (W) | ripple and noise ¹ max (mVp-p) | efficiency level ² typ (%) |
|------------|--------------------------------|------------------------------|----------------------------|---|---|
| SWI45C-P-B | 5 | 3.0 | 15 | 200 | 81.39 |
| | 9 | 3.0 | 27 | 200 | 86.62 |
| | 12 | 3.0 | 36 | 200 | 87.41 |
| | 15 | 3.0 | 45 | 200 | 87.73 |
| | 20 | 2.25 | 45 | 200 | 87.73 |

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, each output terminated with 0.1 µF multilayer ceramic and 47 µF low ESR electrolytic capacitors.
2. Testing at 100%, 75%, 50%, 25% of rated current output.

PART NUMBER KEY



Note: The color of the DC cord matches the color of the product.

INPUT

| parameter | conditions/description | min | typ | max | units |
|---------------------------|------------------------|-----|---------|------|-------|
| voltage | | 90 | 100~240 | 264 | Vac |
| frequency | | 47 | 50~60 | 63 | Hz |
| current | | | | 1.0 | A |
| leakage current | | | | 0.25 | mA |
| no load power consumption | at 230 Vac | | | 0.1 | W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|-----------------|---|-----|-----|-----|-------|
| load regulation | 10% ~ 100% rated load | | ±5 | | % |
| line regulation | ±10% of input voltage | | ±5 | | % |
| start-up time | 100 ~ 240 Vac | | | 3 | s |
| rise time | 10% ~ 90% of nominal voltage, full load | | | 50 | ms |
| hold-up time | at 120 Vac/60 Hz, at full load | 10 | | | ms |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|--------------------------|------------------------|-----|-----|------|-------|
| over voltage protection | auto recovery, hiccup | | | | |
| | 5 Vdc output voltage | | | 9.0 | Vdc |
| | 9 Vdc output voltage | | | 16.2 | Vdc |
| | 12 Vdc output voltage | | | 21.6 | Vdc |
| | 15 Vdc output voltage | | | 27.0 | Vdc |
| over current protection | 20 Vdc output voltage | | | 36.0 | Vdc |
| | auto recovery, hiccup | | | | |
| | 5 Vdc output voltage | 3.2 | | 4.6 | A |
| | 9 Vdc output voltage | 3.2 | | 4.6 | A |
| | 12 Vdc output voltage | 3.2 | | 4.6 | A |
| short circuit protection | 15 Vdc output voltage | 3.2 | | 4.6 | A |
| | 20 Vdc output voltage | 2.4 | | 3.6 | A |
| | auto recovery, hiccup | | | | |

SAFETY & COMPLIANCE

| parameter | conditions/description | min | typ | max | units |
|--------------------|---|---------|-------|-----|-------|
| isolation voltage | input to output for 1 minute, 10 mA max | | 3,000 | | Vac |
| | input to output for 2 seconds, 10 mA max | | 3,600 | | Vac |
| safety approvals | certified to 62368-1: EN | | | | |
| ESD | EN61000-4-2 contact: 4 kV, air: 8 kV, perf. Criteria A | | | | |
| radiated immunity | EN61000-4-3 3 V/m, 80% AM (1KHz), perf. Criteria A | | | | |
| EFT/burst | EN61000-4-4 line to line: 1 kV, line to earth: 1 kV, perf. Criteria A | | | | |
| surge | EN61000-4-5 line to line: 1 kV, line to earth: 1 kV, perf. Criteria A | | | | |
| conducted immunity | EN61000-4-6 3 Vrms, 80% AM (1KHz), perf. Criteria A | | | | |
| MTBF | as per Telcordia SR-332 (Issue 3), full load, 230V/50Hz, at 25°C | 300,000 | | | hours |
| RoHS | yes | | | | |

ENVIRONMENTAL

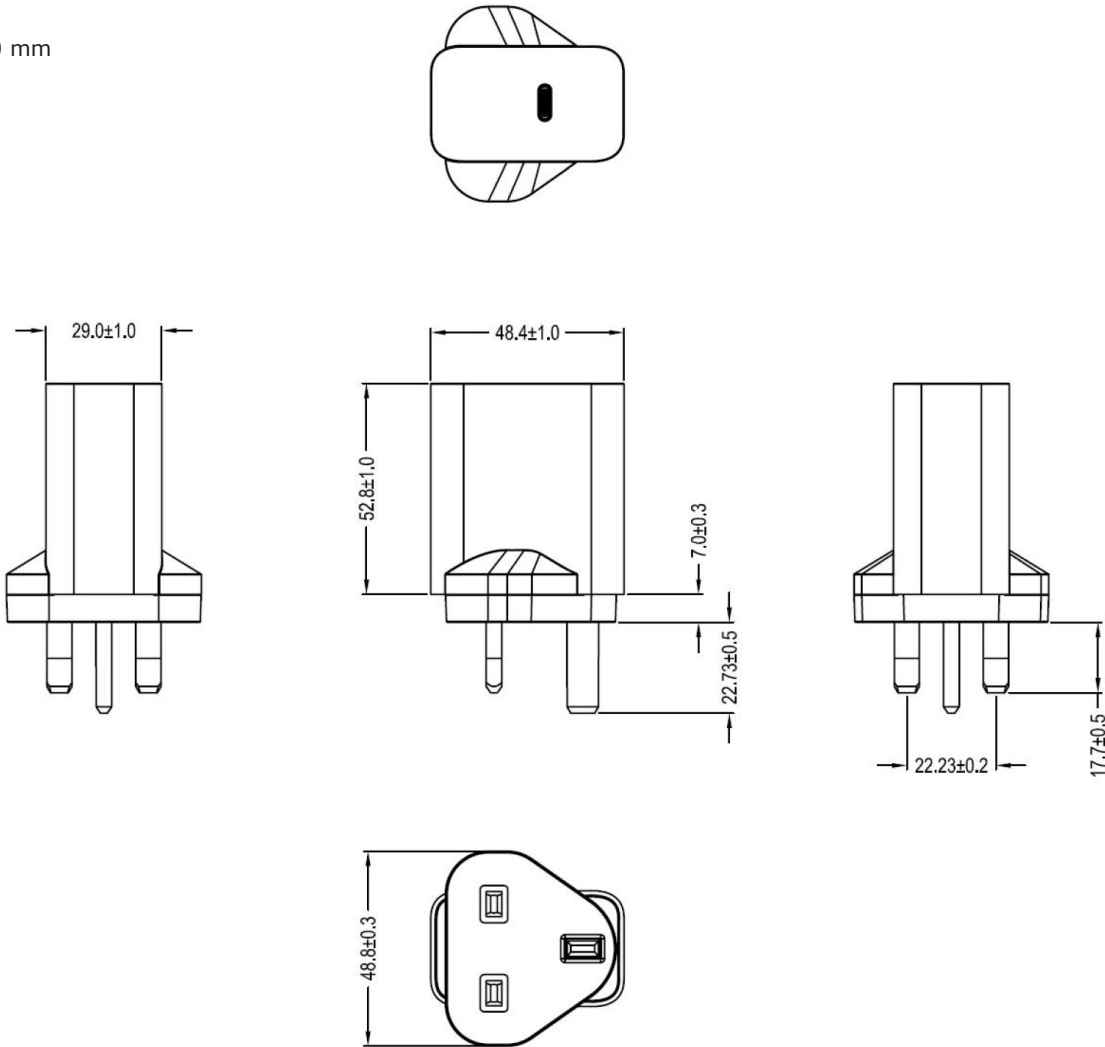
| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-------|-------|
| operating temperature | | 0 | | 40 | °C |
| storage temperature | | -20 | | 80 | °C |
| operating humidity | non-condensing | 20 | | 98 | % |
| storage humidity | non-condensing | 20 | | 98 | % |
| operating altitude | | | | 2,000 | m |

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|------------|------------------------|-----|-----|-----|-------|
| dimensions | 52.8 x 48.4 x 29.0 | | | | mm |
| inlet plug | United Kingdom, 3-pin | | | | |

MECHANICAL DRAWING

units: mm
tolerance: ±1.0 mm



DC CORD

units: mm

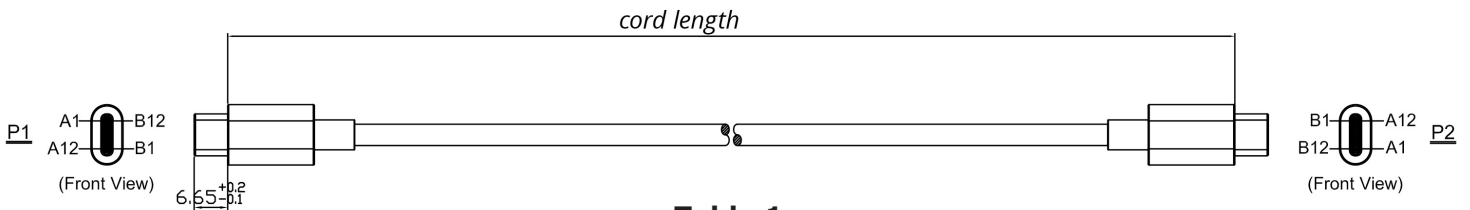


Table 1

| MODEL NO. | CORD LENGTH |
|--------------|---------------|
| SWI45C-P-B-U | 1,000 mm ± 30 |
| SWI45C-P-B-V | 1,500 mm ± 35 |

REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 03/13/2026 |

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.