

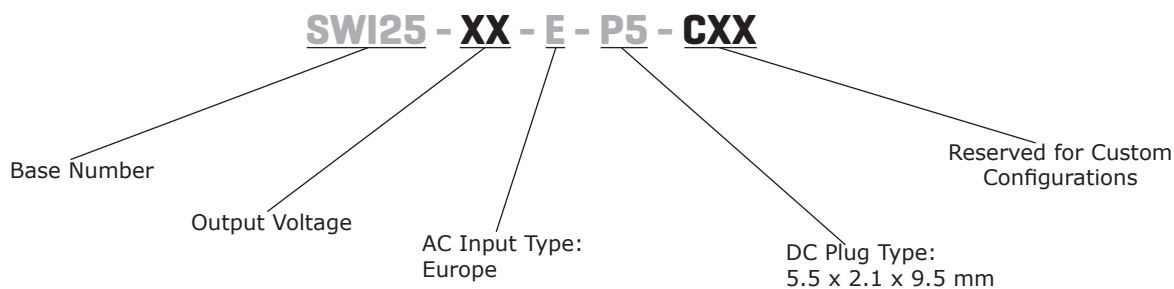
SERIES: SWI25-E | **DESCRIPTION:** AC-DC POWER SUPPLY**FEATURES**

- up to 25.2 W continuous power
- DoE Level VI and CoC Tier 2 compliant
- no load power consumption < 0.075 W
- ultra-compact case
- universal input voltage range
- over voltage, over current, and short circuit protections
- CE and GS safety approvals
- Class II construction
- IEC 62368 compliant



| MODEL | input voltage | input frequency | output voltage | output current | output power | ripple and noise ¹ | efficiency level ² | | no load power consumption |
|------------|---------------|-----------------|----------------|----------------|--------------|-------------------------------|-------------------------------|---------|---------------------------|
| | range (Vac) | range (Hz) | nom (Vdc) | max (A) | max (W) | max (mVp-p) | average ³ (%) | 10% (%) | typ (W) |
| SWI25-5-E | 90 ~ 264 | 47 ~ 63 | 5 | 4.0 | 20.0 | 50 | 85.4 | 75.9 | 0.10 |
| SWI25-12-E | 90 ~ 264 | 47 ~ 63 | 12 | 2.1 | 25.2 | 120 | 86.3 | 77.0 | 0.10 |
| SWI25-15-E | 90 ~ 264 | 47 ~ 63 | 15 | 1.67 | 25.1 | 150 | 86.3 | 77.0 | 0.10 |
| SWI25-18-E | 90 ~ 264 | 47 ~ 63 | 18 | 1.4 | 25.2 | 180 | 86.3 | 77.0 | 0.10 |
| SWI25-24-E | 90 ~ 264 | 47 ~ 63 | 24 | 1.05 | 25.2 | 240 | 86.3 | 77.0 | 0.10 |

Notes: 1. At full load, nominal AC input voltage, 25°C, 20 MHz bandwidth oscilloscope, output terminated with 0.1 μ F and 10 μ F capacitors to ground.
 2. CoC Tier 2 compliant.
 3. Average efficiency is measured at 25%, 50%, 75%, and 100% load.
 4. All specifications are measured at Ta=25°C, nominal input voltage, and 75% rated output load unless otherwise specified.

PART NUMBER KEY

INPUT

| parameter | conditions/description | min | typ | max | units |
|---------------------------|------------------------------|-----|-----|-------|-------|
| voltage | | 90 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | | | | 0.7 | A |
| inrush current | at 240 Vac, 25°C, cold start | | | 60 | A |
| leakage current | | | | 0.25 | mA |
| no load power consumption | | | | 0.075 | W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|----------------------------|--------------------------------------------|-----|-----|-----|-------|
| voltage set point accuracy | at 60% load | | ±2 | | % |
| line regulation | measured from 100~240 Vac, full load | | ±1 | | % |
| load regulation | measured from 60~100% load and 60~20% load | | | | |
| | 5 Vdc output model | | ±6 | | % |
| | 12 Vdc output model | | ±5 | | % |
| | 15 Vdc output model | | ±3 | | % |
| | all other models | | ±2 | | % |
| hold-up time | at 115 Vac | | 10 | | ms |
| switching frequency | | | 65 | | kHz |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|--------------------------|----------------------------------------|-----|-----|------|-------|
| over voltage protection | hiccup mode, auto recovery | | | | |
| | 5 Vdc output model | | | 7.44 | Vdc |
| | 12 Vdc output model | | | 16.2 | Vdc |
| | 15 Vdc output model | | | 18.9 | Vdc |
| | 18 Vdc output model | | | 23.5 | Vdc |
| | 24 Vdc output model | | | 28.8 | Vdc |
| over current protection | hiccup mode, auto recovery | 140 | | 170 | % |
| short circuit protection | continuous, hiccup mode, auto recovery | | | | |

SAFETY & COMPLIANCE

| parameter | conditions/description | min | typ | max | units |
|----------------------|--------------------------------------------------|---------|-------|-----|-------|
| isolation voltage | input to output for 1 minute | | 3,000 | | Vac |
| | | | 4,242 | | Vdc |
| isolation resistance | input to output | 100 | | | MΩ |
| safety marks | TUV-GS (Germany), CE (EU) | | | | |
| safety approvals | 62368: EN, GS TUV | | | | |
| safety class | Class II | | | | |
| EMI/EMC | EN55032 | | | | |
| | EN55024 | | | | |
| MTBF | as per MIL-HDBK-217F at 115 Vac, full load, 25°C | 300,000 | | | hours |
| RoHS | 2011/65/EU | | | | |

ENVIRONMENTAL

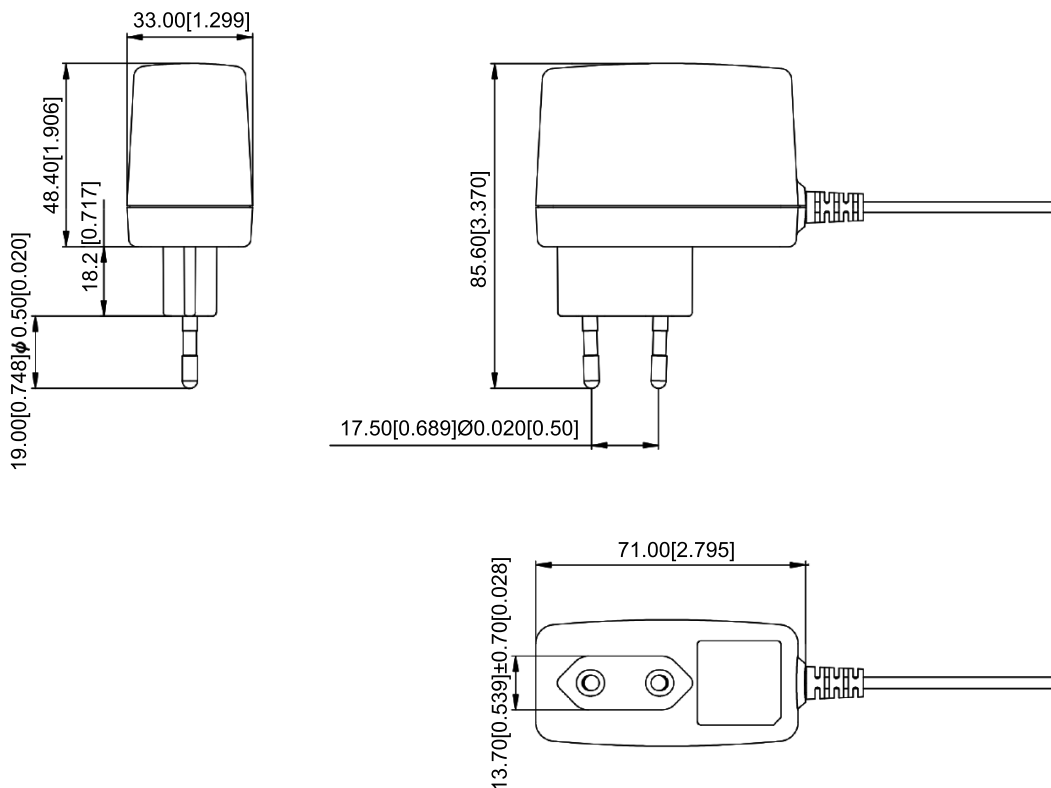
| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | | -20 | | 40 | °C |
| storage temperature | | -20 | | 85 | °C |

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|------------|------------------------------------------------------|-----|-----|-----|-------|
| dimensions | 71.00 x 33.00 x 48.40 (2.795 x 1.299 x 1.906 inches) | | | | mm |
| inlet plug | Europe | | | | |
| weight | | | 140 | | g |

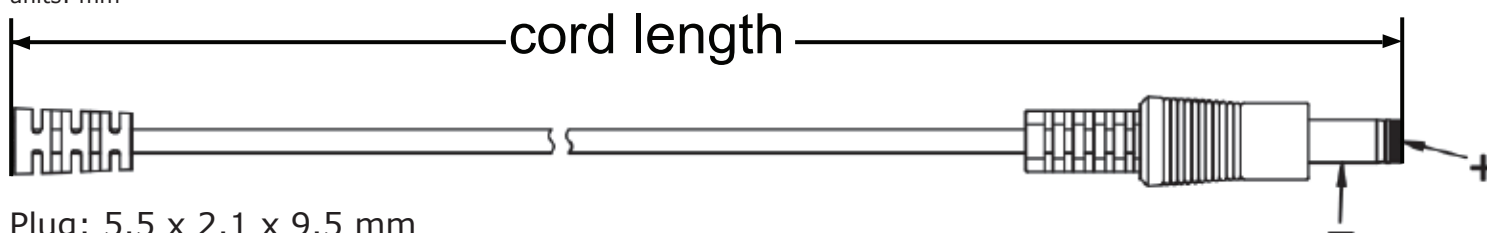
MECHANICAL DRAWING

units: mm [inch]
tolerance: X.XX: ±0.50 [±0.020]



DC CORD

units: mm



Plug: 5.5 x 2.1 x 9.5 mm

Table 1

| MODEL NO. | CABLE | CORD LENGTH |
|------------|--------|--------------|
| SWI25-5-E | 16 AWG | 1,220 mm ±50 |
| SWI25-12-E | 20 AWG | 1,800 mm ±50 |
| SWI25-15-E | 20 AWG | 1,800 mm ±50 |
| SWI25-18-E | 20 AWG | 1,800 mm ±50 |
| SWI25-24-E | 20 AWG | 1,800 mm ±50 |

REVISION HISTORY

| rev. | description | date |
|------|----------------------|------------|
| 1.0 | initial release | 04/19/2017 |
| 1.01 | company logo updated | 08/24/2020 |
| 1.02 | updated safeties | 10/02/2020 |
| 1.03 | model table updated | 11/27/2020 |

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.

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