



SERIES: SWI6-E | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

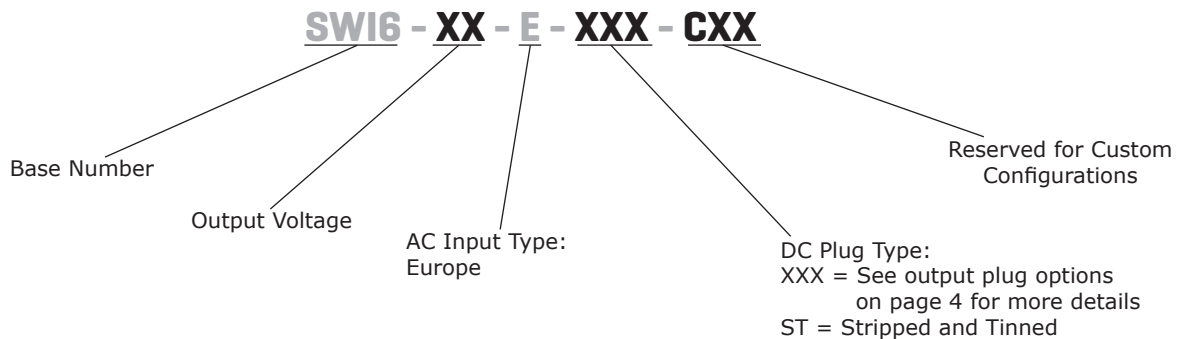
- up to 6 W continuous power
- DOE Level VI, CEC, ErP Stage 2
- no load power consumption < 0.1 W
- compact size
- universal input voltage range
- over voltage, over current, and short circuit protections
- CE safety approvals



| MODEL | output voltage | output current max | output power max | ripple and noise ¹ max | efficiency level |
|------------|----------------|--------------------|------------------|-----------------------------------|------------------|
| | (Vdc) | (A) | (W) | (mVp-p) | |
| SWI6-3.3-E | 3.3 | 1.5 | 4.95 | 100 | VI |
| SWI6-5-E | 5 | 1.5 | 7.5 | 100 | VI |
| SWI6-5.9-E | 5.9 | 1.2 | 7.08 | 100 | VI |
| SWI6-7.5-E | 7.5 | 1.0 | 7.5 | 100 | VI |
| SWI6-9-E | 9 | 0.67 | 6.03 | 100 | VI |
| SWI6-12-E | 12 | 0.6 | 7.2 | 120 | VI |
| SWI6-15-E | 15 | 0.5 | 7.5 | 150 | VI |

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.

PART NUMBER KEY



INPUT

| parameter | conditions/description | min | typ | max | units |
|---------------------------|---|-----|-----|------|-------|
| voltage | | 90 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | | | | 0.19 | A |
| inrush current | at 240 Vac, full load, 25°C, cold start | | | 60 | A |
| leakage current | | | | 0.25 | mA |
| no load power consumption | | | | 0.1 | W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|--------------|------------------------|-----|-----|-----|-------|
| regulation | | | ±5 | | % |
| hold-up time | at full load | 10 | | | ms |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|--------------------------|---------------------------------|-----|-----|-----|-------|
| over voltage protection | output shut down | | | | |
| over current protection | output shut down, auto recovery | | | | |
| 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 | | Vac |
| isolation resistance | input to output at 500 Vdc | 10 | | | MΩ |
| EMI/EMC | CE | | | | |
| MTBF | as per Telcordia SR-332, 25°C | 300,000 | | | hours |
| RoHS | 2011/65/EU | | | | |

ENVIRONMENTAL

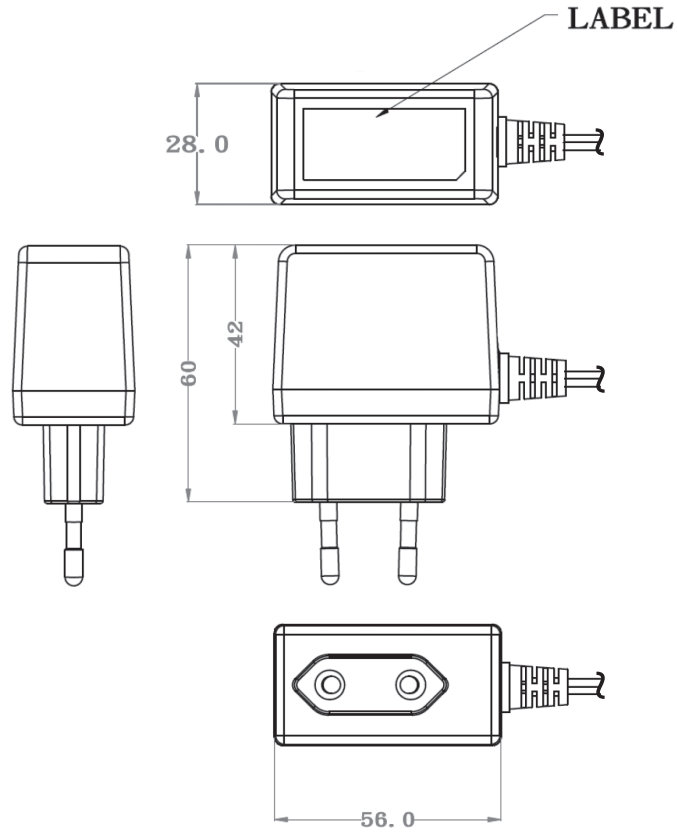
| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | | 0 | | 40 | °C |
| storage temperature | | -20 | | 60 | °C |
| operating humidity | non-condensing | 20 | | 80 | % |
| storage humidity | non-condensing | 10 | | 90 | % |

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|------------|------------------------|-----|-----|-----|-------|
| dimensions | 56 x 28 x 60 | | | | mm |
| inlet plug | Europe | | | | |
| weight | | | 96 | | g |

MECHANICAL DRAWING

units: mm



DC CORD

units: mm

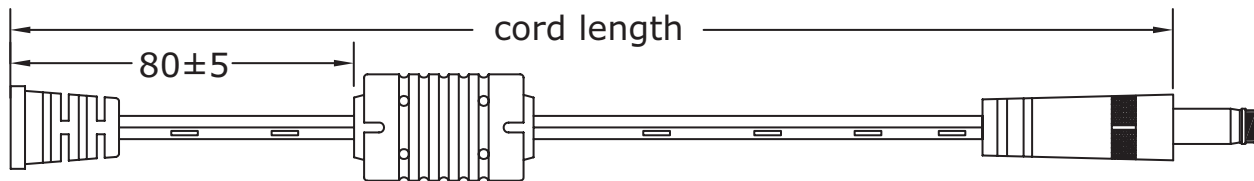
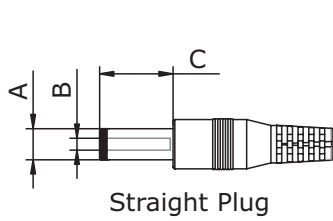


Table 1

| MODEL NO. | CABLE | CORD LENGTH |
|------------|--------|--------------|
| SWI6-3.3-E | UL2468 | 1,500 mm ±30 |
| SWI6-5-E | UL2468 | 1,500 mm ±30 |
| SWI6-5.9-E | UL2468 | 1,500 mm ±30 |
| SWI6-7.5-E | UL2468 | 1,500 mm ±30 |
| SWI6-9-E | UL2468 | 1,500 mm ±30 |
| SWI6-12-E | UL2468 | 1,500 mm ±30 |
| SWI6-15-E | UL2468 | 1,500 mm ±30 |

OUTPUT PLUG OPTIONS

Standard DC Plug



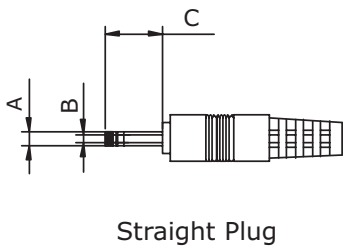
| Size | A | B | C | Unit |
|------|-----|------|-----|------|
| 5 | 5.5 | 2.1 | 9.5 | mm |
| 6 | 5.5 | 2.5 | 9.5 | mm |
| 7 | 3.5 | 1.35 | 9.5 | mm |
| 8 | 3.8 | 1.35 | 9.5 | mm |
| 9 | 3.8 | 1.05 | 9.5 | mm |

Locking DC Plug



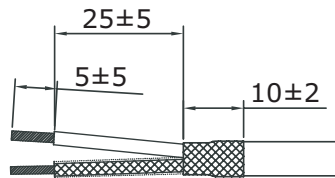
| Size | A | B | C | Unit |
|------|-----|-----|-----|------|
| 10 | 5.5 | 2.1 | 9.5 | mm |
| 11 | 5.5 | 2.5 | 9.5 | mm |

EIAJ DC Plug

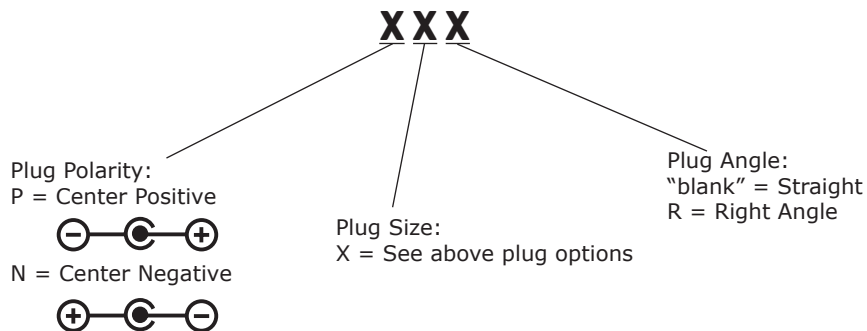


| Size | EIAJ | A | B | C | Unit |
|------|--------|------|-----|-----|------|
| 12 | EIAJ-1 | 2.35 | 0.7 | 9.5 | mm |
| 13 | EIAJ-2 | 4.0 | 1.7 | 9.5 | mm |
| 14 | EIAJ-3 | 4.75 | 1.7 | 9.5 | mm |

Stripped and Tinned



DC Plug Type



*Contact CUI for additional plug options

REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 08/07/2015 |
| 1.01 | added models | 08/12/2015 |
| 1.02 | updated drawing | 12/16/2015 |

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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