


SERIES: SWI12-E | **DESCRIPTION:** AC-DC POWER SUPPLY

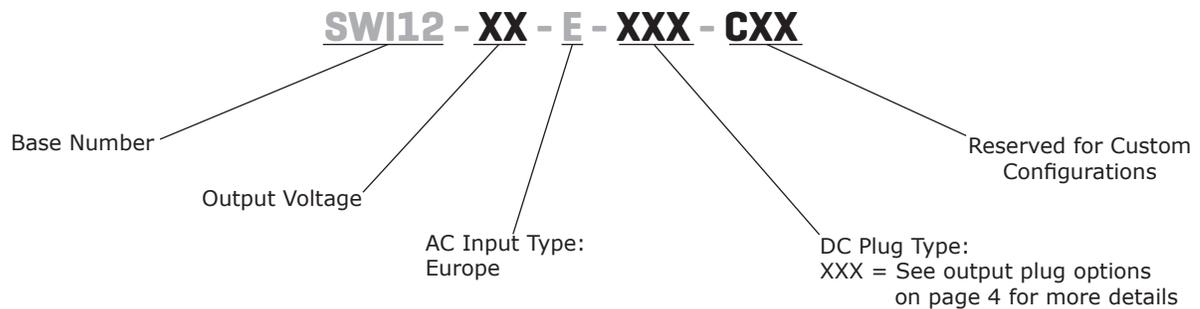
FEATURES

- DoE Level VI, CoC Tier 2 efficiency
- up to 12 W power
- universal input (90~264 Vac)
- single regulated output from 5~24 Vdc
- over voltage, over current, and short circuit protections
- CE safety approval
- custom designs available



| MODEL | output voltage | output current max | output power max | ripple and noise ¹ max | efficiency level ² |
|------------|----------------|--------------------|------------------|-----------------------------------|-------------------------------|
| | (Vdc) | (A) | (W) | (mVp-p) | |
| SWI12-5-E | 5 | 2.5 | 12.5 | 100 | VI |
| SWI12-12-E | 12 | 1.0 | 12 | 120 | VI |
| SWI12-24-E | 24 | 0.5 | 12 | 240 | VI |

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, each output terminated with 0.1 μ F multilayer ceramic and 47 μ F low ESR electrolytic capacitors.
2. CoC Tier 2 compliant

PART NUMBER KEY


INPUT

| parameter | conditions/description | min | typ | max | units |
|---------------------------|------------------------------------------------------------------------------------|-----|-----|----------|--------|
| voltage | | 90 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | | | | 0.31 | A |
| inrush current | at 100 Vac, full load, 25°C, cold start at 240 Vac, full load, 25°C, cold start | | | 30 60 | A A |
| leakage current | | | | 0.25 | mA |
| no load power consumption | at 115/230 Vac | | | 0.075 | W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|------------|------------------------|-----|-----|-----|-------|
| regulation | | | ±5 | | % |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|--------------------------|--------------------------------------------------------------------------------|-----|-----|-------------------|-------------|
| over voltage protection | output shut down | | | 180 | % |
| over current protection | output shut down, auto recovery 5 Vdc model 12 Vdc model 24 Vdc model | | | 5.0 3.0 1.5 | A A A |
| 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 |
| safety approvals | LPS | | | | |
| EMI/EMC | CE | | | | |
| MTBF | as per Telcordia SR-332, at 25°C | 300,000 | | | hours |
| RoHS | 2011/65/EU | | | | |

ENVIRONMENTAL

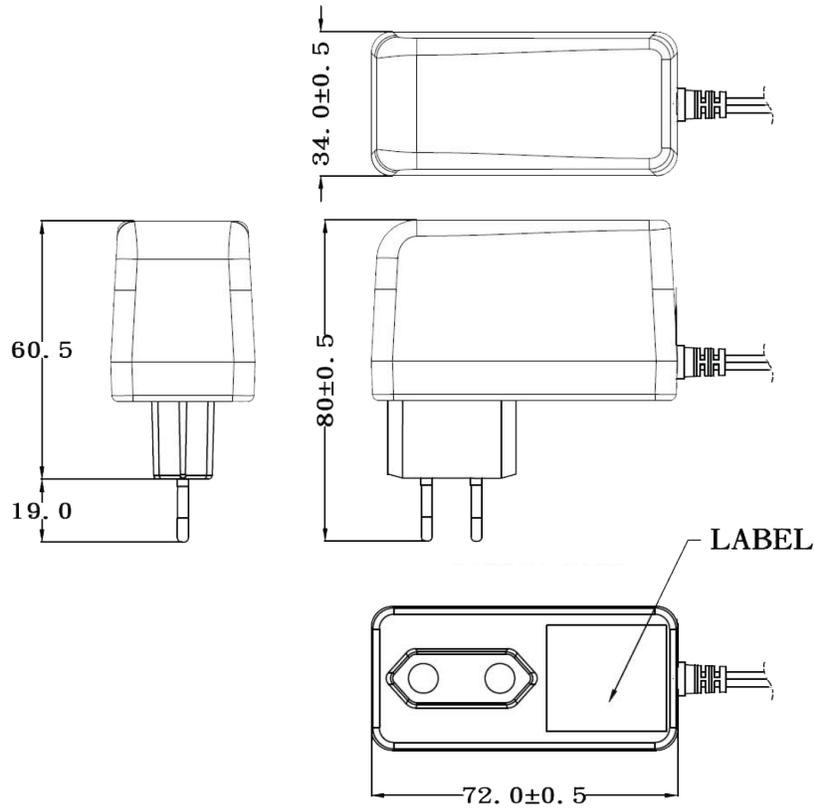
| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | | 0 | | 40 | °C |
| storage temperature | | -20 | | 80 | °C |
| operating humidity | non-condensing | 20 | | 80 | % |
| storage humidity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

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|------------|------------------------|-----|-----|-----|-------|
| dimensions | 72 x 34 x 80 | | | | mm |
| inlet plug | Europe | | | | |
| weight | 5 Vdc model | | 156 | | g |
| | 12 Vdc model | | 118 | | g |
| | 24 Vdc model | | 110 | | g |

MECHANICAL DRAWING

units: mm
tolerance: ±0.5 mm



DC CORD

units: mm

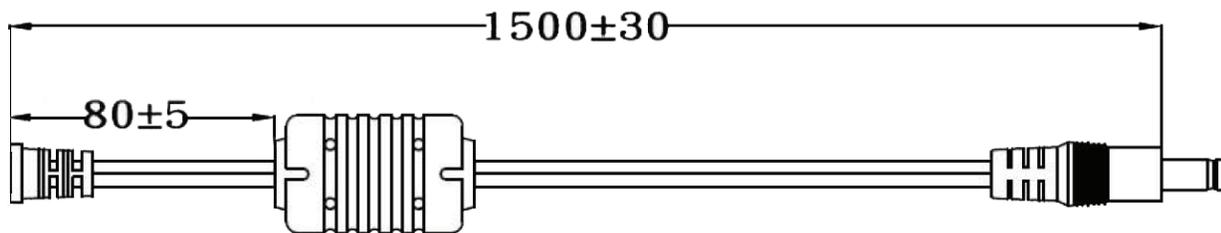
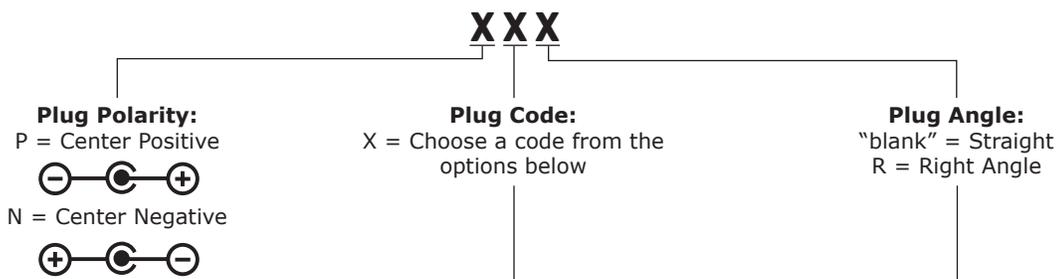


Table 1

| MODEL NO. | CABLE | CORD LENGTH |
|------------|----------------|--------------|
| SWI12-5-E | UL2468, 16 AWG | 1,500 mm ±30 |
| SWI12-12-E | UL2468, 22 AWG | 1,500 mm ±30 |
| SWI12-24-E | UL2468, 22 AWG | 1,500 mm ±30 |

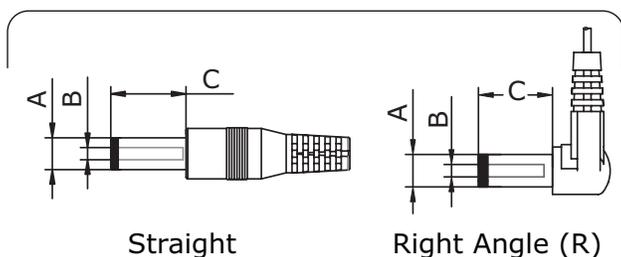
DC PLUG TYPE PART NUMBER KEY



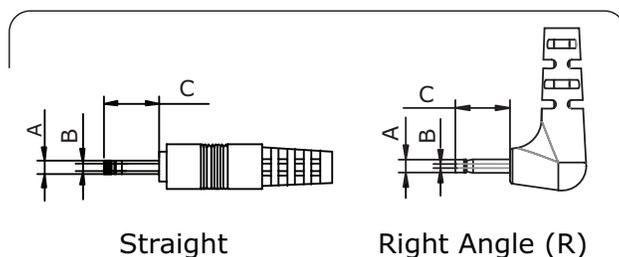
| Plug Polarity | | Code | | Dimensions (mm) | | | Plug Angle | |
|---------------|-------------|--------|-------------------|-----------------|------|-----|------------|-------|
| Center Pos. | Center Neg. | Option | Type | A | B | C | Straight | Right |
| • | • | 5 | Standard | 5.5 | 2.1 | 9.5 | • | • |
| • | • | 6 | Standard | 5.5 | 2.5 | 9.5 | • | • |
| • | • | 7 | Standard | 3.5 | 1.35 | 9.5 | • | • |
| • | • | 8 | Standard | 3.8 | 1.35 | 9.5 | • | • |
| • | • | 9 | Standard | 3.8 | 1.05 | 9.5 | • | • |
| • | • | 10 | Locking | 5.5 | 2.1 | 9.5 | • | N/A |
| • | • | 11 | Locking | 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 | • | • |
| N/A | N/A | ST | Stripped & Tinned | | | N/A | N/A | |

Note: 1. Contact CUI for additional plug options

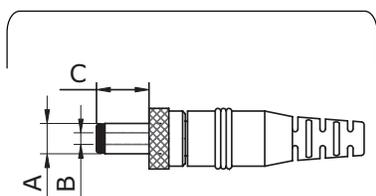
Standard



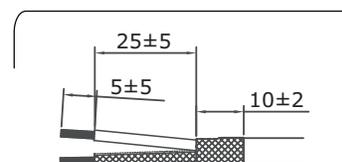
EIAJ



Locking



Stripped & Tinned



REVISION HISTORY

| rev. | description | date |
|------|-------------------------------------------------------|------------|
| 1.0 | initial release | 05/04/2015 |
| 1.01 | changed wire gauge on 5 Vdc models, updated datasheet | 09/15/2016 |
| 1.02 | added 24 Vdc output model | 03/13/2017 |
| 1.03 | updated weight detail | 06/08/2017 |

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.

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.

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