

SERIES: SWI5-N-USB | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

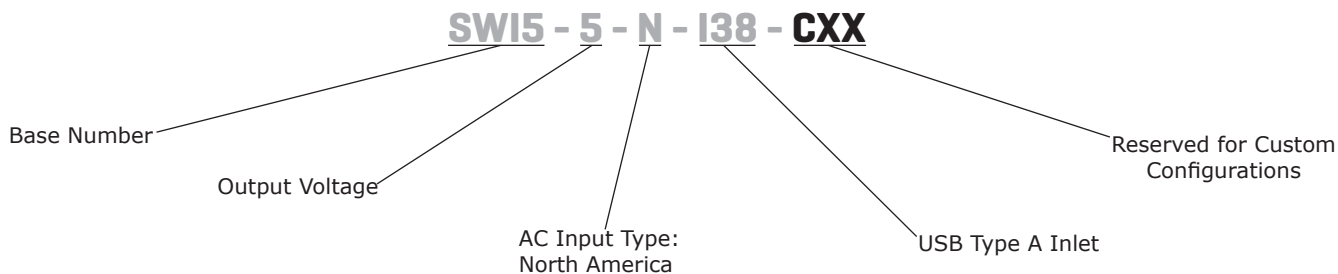
- 5 W power
- DoE Level VI, CoC Tier 2 efficiency
- universal input (90~264 Vac)
- single regulated 5 Vdc output
- over voltage, over current, and short circuit protections
- UL/cUL, PSE safety approvals



| MODEL | output voltage (Vdc) | output current max (A) | output power max (W) | ripple and noise ¹ max (mVp-p) | efficiency level ² |
|--------------|-------------------------|------------------------------|----------------------------|---|-------------------------------|
| SWI5-5-N-I38 | 5 | 1 | 5 | 300 | VI |

Notes: 1. At full load, nominal input, 25 °C, 20 MHz bandwidth oscilloscope, each output terminated with 0.1 µF ceramic and 10 µF electrolytic capacitors.
2. CoC Tier 2 complaint

PART NUMBER KEY



INPUT

| parameter | conditions/description | min | typ | max | units |
|---------------------------|--|-----|-----|----------------|--------|
| voltage | | 90 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | | | | 0.2 | A |
| leakage current | | | | 0.02 | mA |
| no load power consumption | at 115/230 Vac, 50/60 Hz Level VI CoC Tier 2 | | | 0.075 0.075 | W W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|-----------------|------------------------|-----|-----|-----|-------|
| line regulation | | | ±5 | | % |
| load regulation | | | ±5 | | % |
| start-up time | | | | 3 | s |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|--------------------------|------------------------|-----|-----|-----|-------|
| over voltage protection | | | | 10 | Vdc |
| over current protection | auto recovery | | | 1.5 | A |
| short circuit protection | | | | | |

SAFETY & COMPLIANCE

| parameter | conditions/description | min | typ | max | units |
|-------------------|--|--------|----------------|-----|------------|
| isolation voltage | input to output at 10 mA for 1 minute | | 3,000 4,242 | | Vac Vdc |
| safety approvals | UL/cUL (62368), LPS, PSE | | | | |
| EMI/EMC | FCC Part 15 Class B | | | | |
| MTBF | as per Telcordia SR-332, Issue 2, at 115/230 Vac, full load, 0~40°C | 50,000 | | | 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 | | 85 | % |
| storage humidity | non-condensing | 5 | | 95 | % |

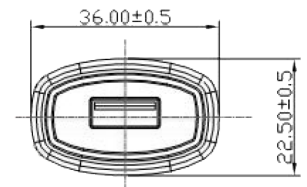
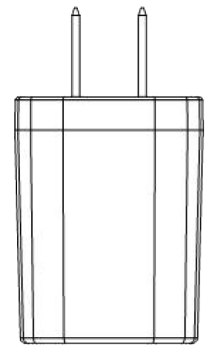
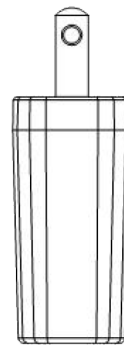
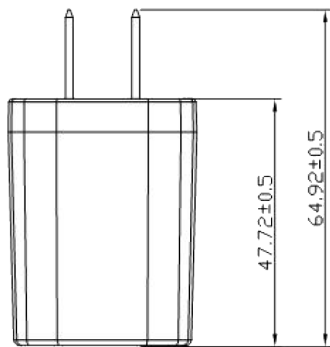
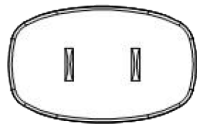
MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|------------|------------------------|-----|-----|-----|-------|
| dimensions | 64.92 x 36 x 22.5 | | | | mm |
| input plug | North America, 2-pin | | | | |
| weight | | | 80 | | g |

MECHANICAL DRAWING

units: mm
tolerance: ±0.5 mm

| PIN | Output Voltage |
|-----|----------------|
| 1 | +5V |
| 2 | Short |
| 3 | Short |
| 4 | GND |



REVISION HISTORY

| rev. | description | date |
|------|------------------------|------------|
| 1.0 | initial release | 04/30/2015 |
| 1.01 | updated datasheet | 09/14/2016 |
| 1.02 | safety approval update | 07/15/2020 |

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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