



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

**FEATURES**

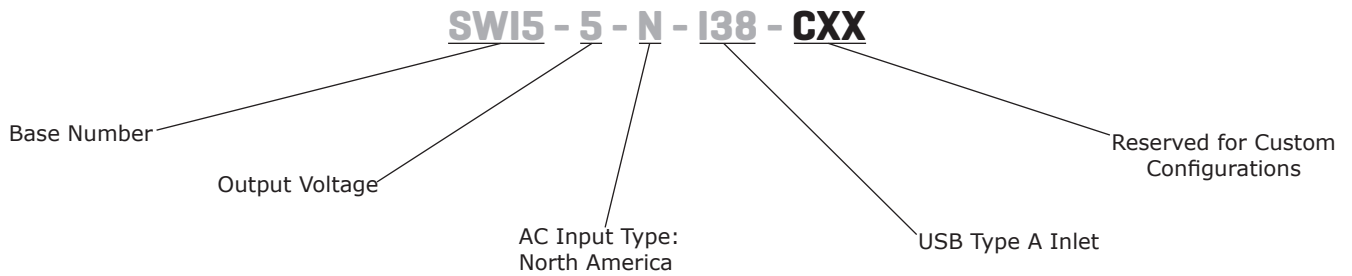
- 5 W power
- DoE Level VI, CoC Tier 2 efficiency
- universal input (90~264 Vac)
- single regulated 5 Vdc output
- over voltage, over current, and short circuit protections
- UL/cUL, PSE safety approvals



| MODEL        | output voltage<br>(Vdc) | output current<br>max<br>(A) | output power<br>max<br>(W) | ripple and noise <sup>1</sup><br>max<br>(mVp-p) | efficiency level <sup>2</sup> |
|--------------|-------------------------|------------------------------|----------------------------|---|-------------------------------|
| 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<br>Level VI<br>CoC Tier 2 |     |     | 0.075<br>0.075 | W<br>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<br>4,242 |     | Vac<br>Vdc |
| safety approvals  | UL/cUL (UL60950-1), 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  | %     |

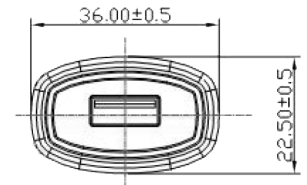
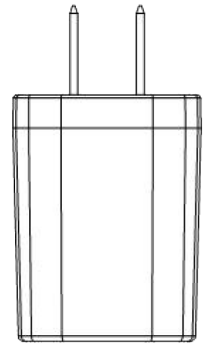
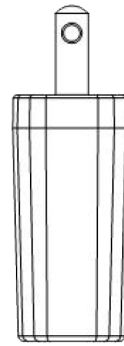
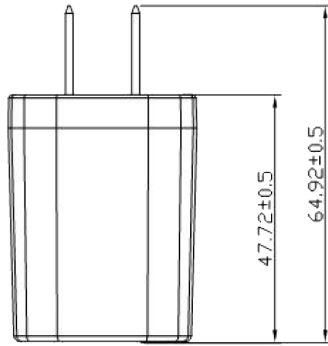
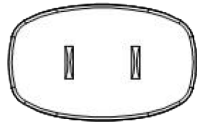
## MECHANICAL

| 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 |

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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