


**SERIES:** SWI10-E-USB | **DESCRIPTION:** AC-DC POWER SUPPLY

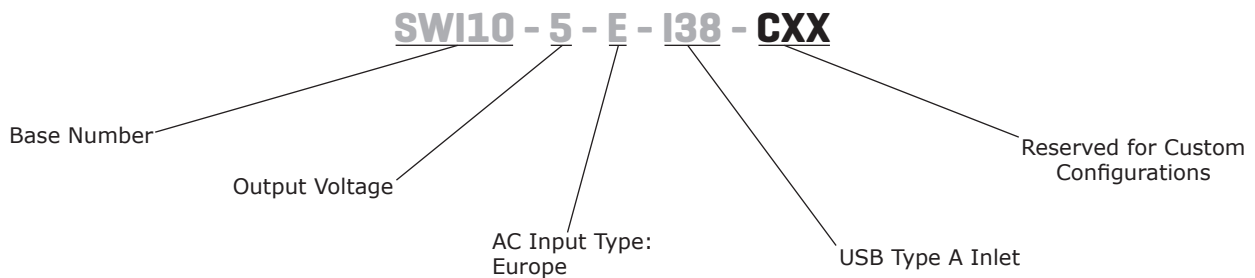
**FEATURES**

- up to 10 W continuous power
- DoE Level VI, CoC Tier 2 efficiency
- universal input voltage range
- ultra-compact case
- no load power consumption < 0.075 W
- integrated USB connector
- over current, over voltage, and short circuit protections
- CE and GS safety approvals


**MODEL**

|               | output<br>voltage<br>(Vdc) | output<br>current<br>max<br>(A) | output<br>power<br>max<br>(W) | ripple<br>and noise <sup>1</sup><br>max<br>(mVp-p) | efficiency<br>level <sup>2</sup> |
|---------------|----------------------------|---------------------------------|-------------------------------|----------------------------------------------------|----------------------------------|
| SWI10-5-E-I38 | 5                          | 2                               | 10                            | 300                                                | VI                               |

Notes: 1. At full load, 25°C, nominal input, 20 MHz bandwidth oscilloscope, output parallel with 0.1  $\mu$ F and 10  $\mu$ F capacitors to ground.  
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                   | at nominal input voltage             |     |     | 0.3   | A     |
| leakage current           | at nominal input voltage & frequency |     |     | 0.25  | mA    |
| no load power consumption | at 115/230 Vac, 60/50 Hz             |     |     | 0.075 | W     |
|                           | Level VI<br>CoC Tier 2               |     |     | 0.075 | W     |

## OUTPUT

| parameter       | conditions/description              | min | typ | max | units |
|-----------------|-------------------------------------|-----|-----|-----|-------|
| load regulation |                                     |     | ±5  |     | %     |
| start-up time   |                                     |     |     | 3   | s     |
| hold-up time    | at nominal input voltage, full load | 5   |     |     | ms    |

## PROTECTIONS

| parameter                | conditions/description          | min | typ | max | units |
|--------------------------|---------------------------------|-----|-----|-----|-------|
| over voltage protection  | with zener clamp                |     |     | 10  | Vdc   |
| over current protection  | output shut down, auto recovery |     |     | 4   | 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  | GS                                                                  |        |                |     |            |
| EMI/EMC           | CE                                                                  |        |                |     |            |
| 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 | 69.6 x 38.5 x 23.5     |     |     |     | mm    |
| inlet plug | Europe                 |     |     |     |       |
| weight     |                        |     | 46  |     | g     |

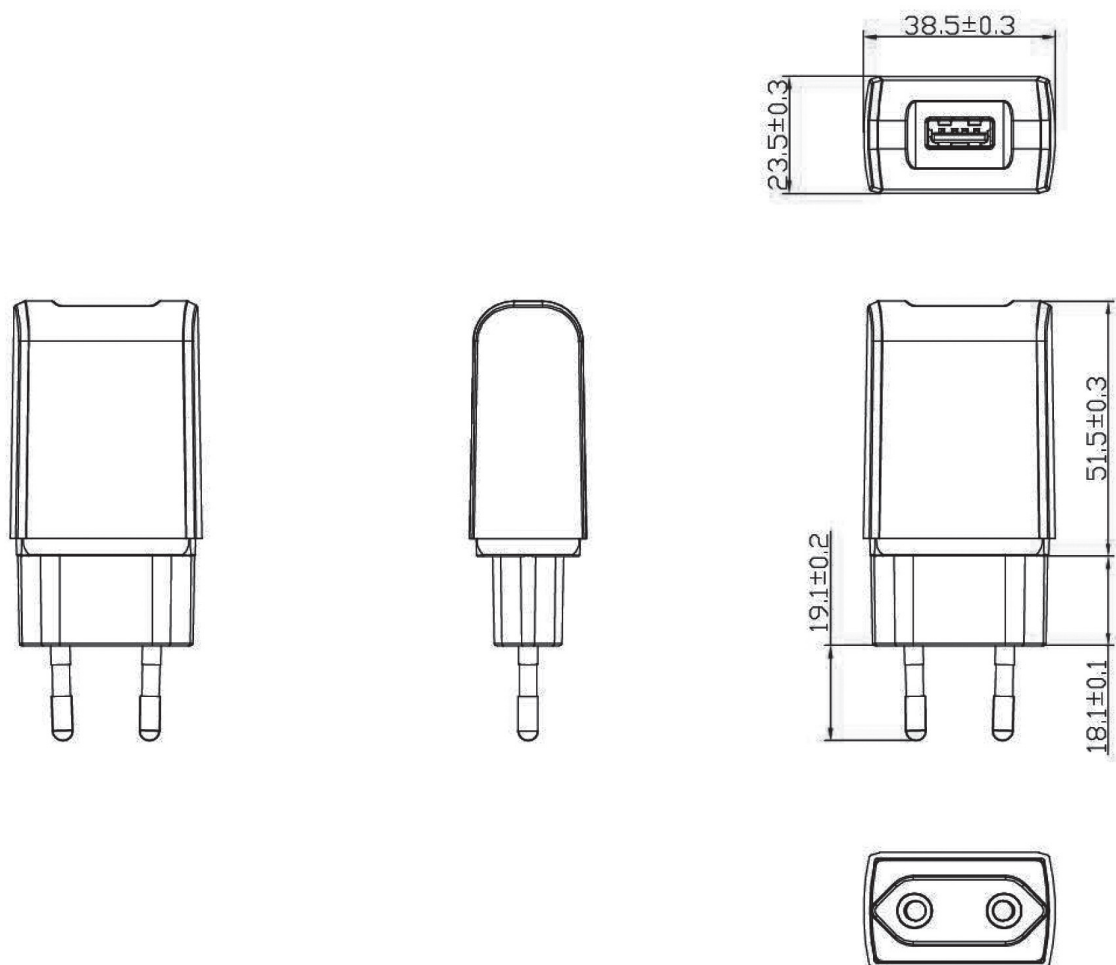
## MECHANICAL DRAWING

units: mm

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

|     |   |
|-----|---|
| +5  | 1 |
| GND | 4 |



## REVISION HISTORY

| rev. | description       | date       |
|------|-------------------|------------|
| 1.0  | initial release   | 05/10/2016 |
| 1.01 | updated datasheet | 09/16/2016 |

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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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
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- Работу по проектам и поставку образцов.
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- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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