

SERIES: SWM6-N | DESCRIPTION: AC-DC POWER SUPPLY
FEATURES

- up to 6 W power
- UL60601 4th edition
- compact vertical or horizontal mount
- universal input (90~264 Vac)
- single regulated output from 5~12 Vdc
- over voltage and short circuit protections
- DOE Level VI efficiency
- 2 MOPP compliant



| MODEL | output voltage | output current max | output power max | ripple and noise ¹ max | efficiency level |
|-----------|----------------|--------------------|------------------|-----------------------------------|------------------|
| | (Vdc) | (A) | (W) | (mVp-p) | |
| SWM6-5-N | 5 | 1.2 | 6 | 100 | VI |
| SWM6-6-N | 6 | 1 | 6 | 120 | VI |
| SWM6-9-N | 9 | 0.66 | 6 | 180 | VI |
| SWM6-12-N | 12 | 0.5 | 6 | 240 | VI |

Notes: 1. At full load, 100 ~ 240 Vac input, 20 MHz bandwidth oscilloscope, output terminated with a low ESR 47 μ F electrolytic and 0.1 μ F multilayer capacitor.

PART NUMBER KEY


INPUT

| parameter | conditions/description | min | typ | max | units |
|---------------------------|--|-----|-----|------------|--------|
| voltage | | 90 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | at 115 Vac, full load at 230 Vac, full load | | | 0.6 0.3 | A A |
| inrush current | at 115 Vac, full load, cold start at 230 Vac, full load, cold start | | | 30 60 | A A |
| leakage current | at 240 Vac, 50 Hz | | | 0.1 | mA |
| no load power consumption | at 115/230 Vac, 60/50 Hz | | | 0.1 | W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|-----------------|--|-----|-----|-----|-------|
| line regulation | | | ±1 | | % |
| load regulation | | | ±5 | | % |
| start-up time | at 100 Vac, to 90% of rated output voltage | | | 3 | s |
| rise time | at nominal input voltage, full load, from 10% to 90% of output voltage | | | 50 | ms |
| hold-up time | at nominal input voltage, full load | 8.3 | | | ms |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|--------------------------|---------------------------------|-----|-----|-----|-------|
| over voltage protection | output shutdown, auto recovery | | | | |
| over current protection | output shutdown, auto recovery | | | 200 | % |
| short circuit protection | output shut down, auto recovery | | | | |

SAFETY & COMPLIANCE

| parameter | conditions/description | min | typ | max | units |
|----------------------|--|---------|-------|-----|-------|
| isolation voltage | input to output | | 4,000 | | Vac |
| isolation resistance | input to output at 500 Vdc for 3 seconds | 50 | | | MΩ |
| safety approvals | medical: UL/cUL 60601 ITE: PSE | | | | |
| EMI/EMC | FCC Part 15B Class B | | | | |
| MTBF | as per MIL-HDBK-217F | 100,000 | | | hours |
| RoHS | 2011/65/EU | | | | |

ENVIRONMENTAL

| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-------|-----|-------|
| operating temperature | | 0 | | 40 | °C |
| storage temperature | | -20 | | 85 | °C |
| operating humidity | non-condensing | 10 | | 90 | % |
| storage humidity | non-condensing | 5 | | 90 | % |
| altitude | | | 5,000 | | m |

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|------------|--|-----|----------|-----|----------|
| dimensions | horizontal models: 55 x 25 x 43 vertical models: 53 x 41 x 30 | | | | mm mm |
| inlet plug | North America, 2-pin | | | | |
| weight | horizontal models vertical models | | 65 70 | | g g |
| color | black | | | | |

MECHANICAL DRAWINGS

units: mm
tolerance: ±1 mm

Horizontal Models



Vertical Models



DC CORD

units: mm



Table 1

| MODEL NO. | CABLE | CORD LENGTH |
|-----------|----------------|--------------|
| SWM6-5-N | UL2468, 22 AWG | 1,500 mm ±50 |
| SWM6-6-N | UL2468, 22 AWG | 1,500 mm ±50 |
| SWM6-9-N | UL2468, 24 AWG | 1,500 mm ±50 |
| SWM6-12-N | UL2468, 24 AWG | 1,500 mm ±50 |

DC PLUG TYPE PART NUMBER KEY

XXX

Plug Polarity:
P = Center Positive
N = Center Negative

Plug Code:
X = Choose a code from the options below

Plug Angle:
"blank" = Straight
R = Right Angle

| 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 | • | • |
| • | • | 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 |
| N/A | N/A | MUB | USB | Micro USB Type B | | | • | N/A |

Note: 1. Contact CUI for additional plug options

Standard



EIAJ



Stripped & Tinned



USB



REVISION HISTORY

| rev. | description | date |
|------|-------------------------|------------|
| 1.0 | initial release | 06/27/2017 |
| 1.01 | added PSE certification | 01/24/2018 |

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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