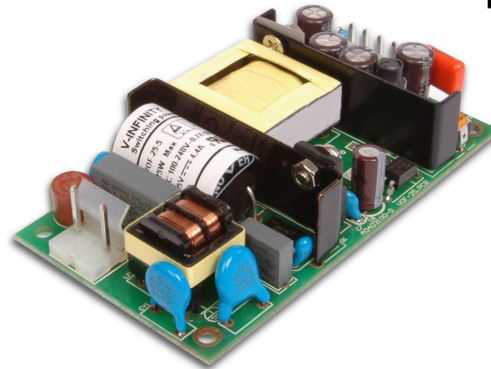


Features

- RoHS Compliant
- Universal input 85~264 Vac
- Output over-current protected
- Output over-voltage protected
- Industry standard foot-print
- Efficiency up to 82%
- Safety approved to TUV, CE; UL/cUL
- Conducted EMI meets EN55022 class B and FCC class B



| Model | Voltage (V) | Current (A) | Total ^{1,2} Regulation | Ripple & Noise ³ (mVp-p max) | Efficiency (%) |
|------------|-------------|-------------|---------------------------------|---|----------------|
| VOF-25-3.3 | 3.3 | 4.4 | ±5% | 50 | 70 |
| VOF-25-5 | 5 | 4.4 | ±5% | 50 | 73 |
| VOF-25-7.5 | 7.5 | 3.0 | ±5% | 75 | 73 |
| VOF-25-9 | 9 | 2.7 | ±5% | 90 | 77 |
| VOF-25-12 | 12 | 2.0 | ±5% | 120 | 80 |
| VOF-25-15 | 15 | 1.6 | ±5% | 150 | 80 |
| VOF-25-24 | 24 | 1.0 | ±5% | 240 | 82 |

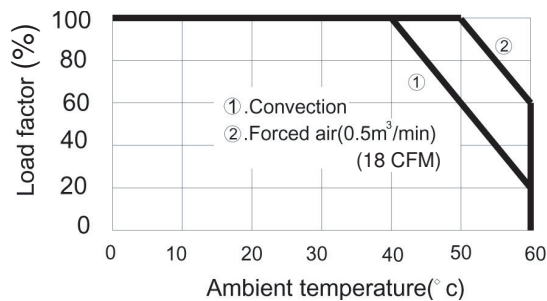
Notes:

1. Measured from High Line to Low Line at Full load.
2. Measured from Full load to 10% load at 110 VAC.
3. Ripple & Noise measured at 20 MHz BW, with a 0.1 μ F ceramic cap and a 10 μ F electrolytic cap on the output and two earth ground pads are connected to input earth ground.

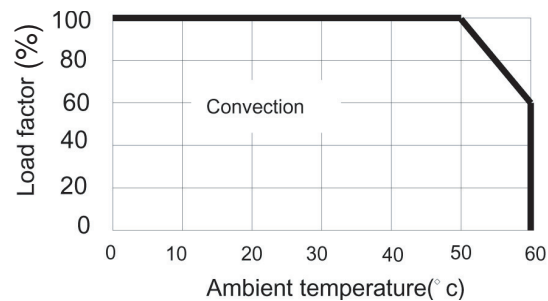
Derating Curves

1. Output Power vs. Ambient temperature

a. 3.3 V and 5 V models

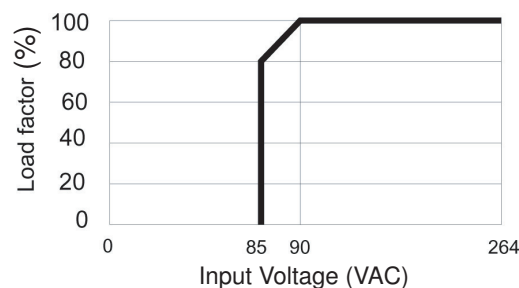


b. All other models



2. Output Power vs. Input Voltage

All Models



**Input**

| Parameter | Conditions/Description | Min | Nom | Max | Units |
|-----------------|--|-----|-----|-----|-------|
| Input Frequency | | 47 | | 63 | Hz |
| Input Voltage | Output power derated from 85-90 VAC | 85 | | 264 | VAC |
| Input Current | AC Input of 110 VAC | | 700 | | mA |
| | AC Input of 210 VAC | | 350 | | mA |
| Inrush Current | Measured at 110 VAC at full load, cold start | | | 20 | A |
| | Measured at 220 VAC at full load, cold start | | | 40 | A |
| Input fuse | Built-in, non-user serviceable. | | | | |

Output

| Parameter | Conditions/Description | Min | Nom | Max | Units |
|-------------------|---|-------|-----|-------|-------|
| Efficiency | See table above. Typical values measured at 115 VAC, full load. | | | | |
| Hold up time | At 115 VAC, full load | 16 | | | mS |
| Adjustability | Adjustable with built-in trim pot. | - 5 | | +5 | % |
| Temp. Coefficient | | -0.05 | | +0.05 | %/°C |

Protection Circuit

| Parameter | Conditions/Description |
|---------------------|---|
| Overload | Current limiting starts at 105% of the rated output current and recovers automatically. |
| Output Over-voltage | Output voltage is limited to 115% by TVS clamping. |
| Short Circuit | Protected. Long term short circuit may reduce reliability. |

General and Safety

| Parameter | Conditions/Description | Min | Nom | Max | Units |
|----------------------------|--|------|-----|--------|-------|
| Operating temp. | See derating curves. | 0 | | 50 | °C |
| Storage temp. | | -20 | | 85 | °C |
| Operating humid. | Non-condensing | 20% | | 90% | RH |
| Storage humid. | Non-condensing | 20% | | 95% | RH |
| Operating altitude | | | | 3,000 | m |
| | | | | 10,000 | ft |
| | | | | 30,000 | ft |
| Storage altitude | | | | 9,000 | m |
| | | | | 30,000 | ft |
| EMI | Conducted emissions comply with FCC class B, EN55022 class B | | | | |
| Safety | Approved to TUV EN60950, CE, CB; UL/cUL 60950-1 | | | | |
| RoHS | 2002/95/EC | | | | |
| Leakage Current | Per EN60950, 264 VAC | | | 1.5 | mA |
| Isolation Voltage (HI-POT) | Applied for 1 minute. | | | | |
| | Primary to secondary: | 3000 | | | VAC |
| | Primary to transformer core: | 1500 | | | VAC |
| | Primary to earth ground: | 1500 | | | VAC |
| Insulation Resistance | Measured at 500 VDC, at room temp. | 50 | | | MΩ |
| MTBF (@ 25°C) | MIL-HDBK-217F | 250K | | | hours |
| Warranty | Standard Warranty Length | | | 2 | years |

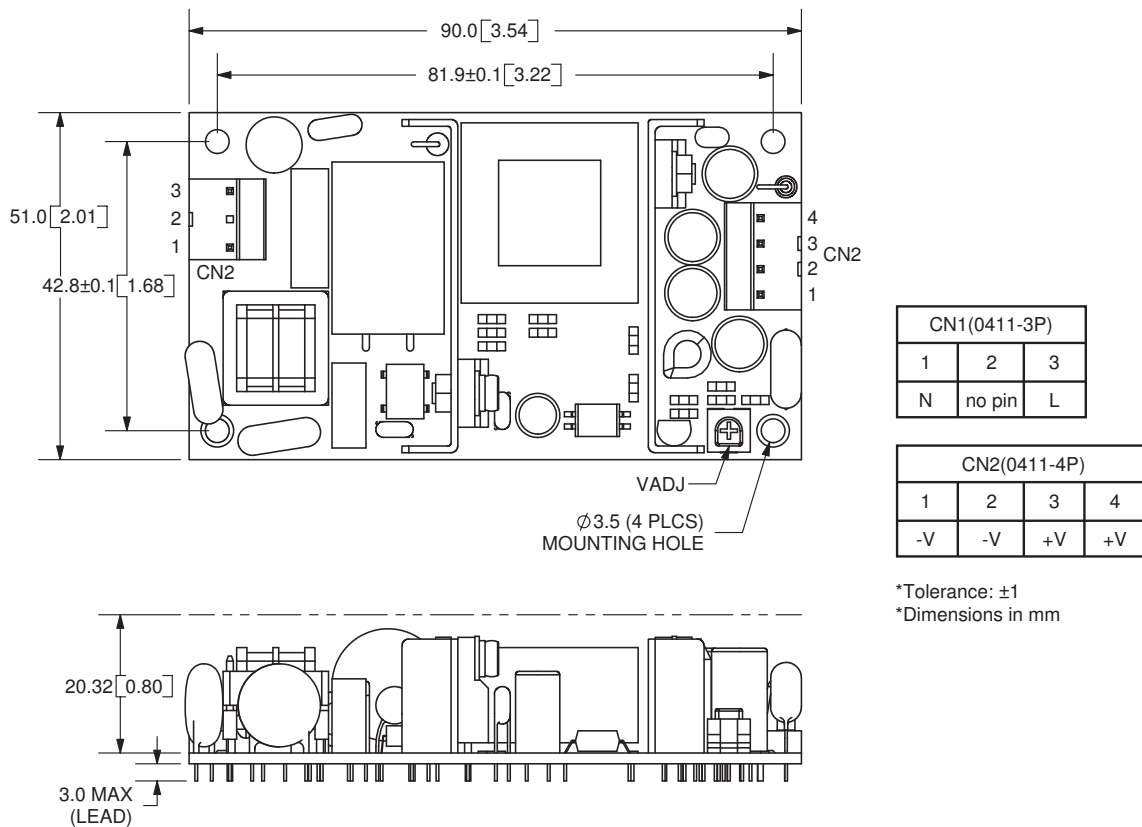
Mechanical

| Parameter | Conditions/Description | Min | Nom | Max | Units |
|----------------|--|-----|-----|------|-------|
| Dimensions | 3.5"(88.9mm) x 2"(51mm) x 0.8"(20.32mm) | | | | |
| Weight | | | | 0.09 | kg |
| Cooling method | free air convection (see derating curve on p. 1) | | | | |

Mating Connectors

| Parameter | Conditions/Description |
|-----------------|---|
| AC Input (CN1) | Mates with Molex housing 09-50-3031 with Molex 2878 series crimp contact. |
| DC Output (CN2) | Mates with Molex housing 09-50-3041 with Molex 2878 series crimp contact. |

Outline Drawing



*V-Infinity reserves the right to make changes to its products or to discontinue any product or service without notice, and to advise customers to verify the most up-to-date product information before placing orders. V-Infinity assumes no liability or responsibility for customer's applications using V-Infinity products other than repair or replacing (at V-I's option) V-Infinity products not meeting V-I's published specifications. Nothing will be covered outside of standard product warranty.