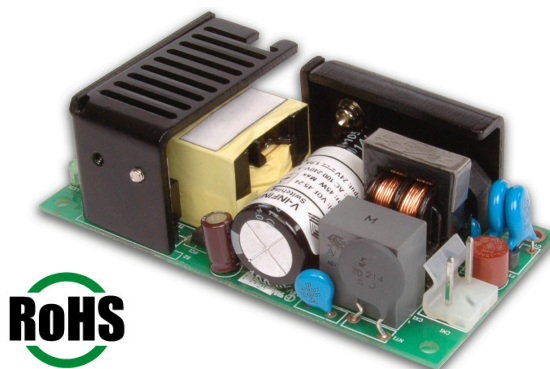


## Features

- RoHS compliant
- Universal input 85~264 Vac
- Output over-current protected
- Output over-voltage protected
- Industry standard foot-print
- Efficiency up to 88%
- Safety approved to TUV, CE; UL/cUL
- Conducted EMI meets EN55022 class B and FCC class B



| Model      | Voltage (V) | Current (A) | Total <sup>1, 2</sup> Regulation | Ripple & Noise <sup>3</sup> (mVp-p max) | Efficiency (%) |
|------------|-------------|-------------|----------------------------------|-----------------------------------------|----------------|
| VOF-65-3.3 | 3.3         | 8.0         | ±5%                              | 50                                      | 74             |
| VOF-65-5   | 5           | 8.0         | ±5%                              | 50                                      | 78             |
| VOF-65-7.5 | 7.5         | 6.6         | ±5%                              | 75                                      | 78             |
| VOF-65-9   | 9           | 6.6         | ±5%                              | 90                                      | 82             |
| VOF-65-12  | 12          | 5.4         | ±5%                              | 120                                     | 84             |
| VOF-65-15  | 15          | 4.3         | ±5%                              | 150                                     | 85             |
| VOF-65-24  | 24          | 2.7         | ±5%                              | 240                                     | 86             |
| VOF-65-48  | 48          | 1.35        | ±5%                              | 480                                     | 88             |

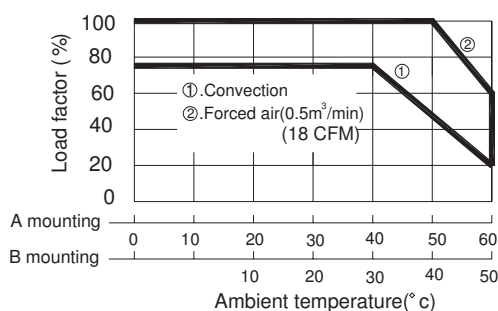
## Notes:

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  $\mu$ F ceramic cap and a 10  $\mu$ F electrolytic cap on the output and the two earth ground pads are connected to input earth ground.

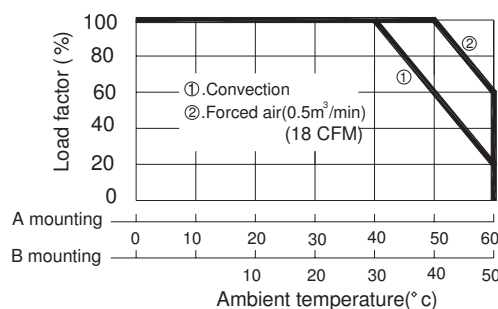
## Derating Curves

### 1. Output Power vs. Ambient temperature

#### a. 3.3, 5, 7.5 V models

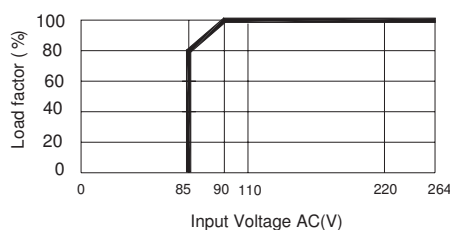


#### b. All other models



### 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                          |     | 1400 |     | mA    |
|                 | AC Input of 220 VAC                          |     | 700  |     | mA    |
| Inrush Current  | Measured at 110 VAC at full load, cold start |     |      | 25  | A     |
|                 | Measured at 220 VAC at full load, cold start |     |      | 50  | 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                                           | 8     |     |       | 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 |
|-------------------------------|--------------------------------------------------------------|------|-----|--------|-------|
| Switching frequency           |                                                              |      | 60  |        | KHz   |
| 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    |
| 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<br>(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 |

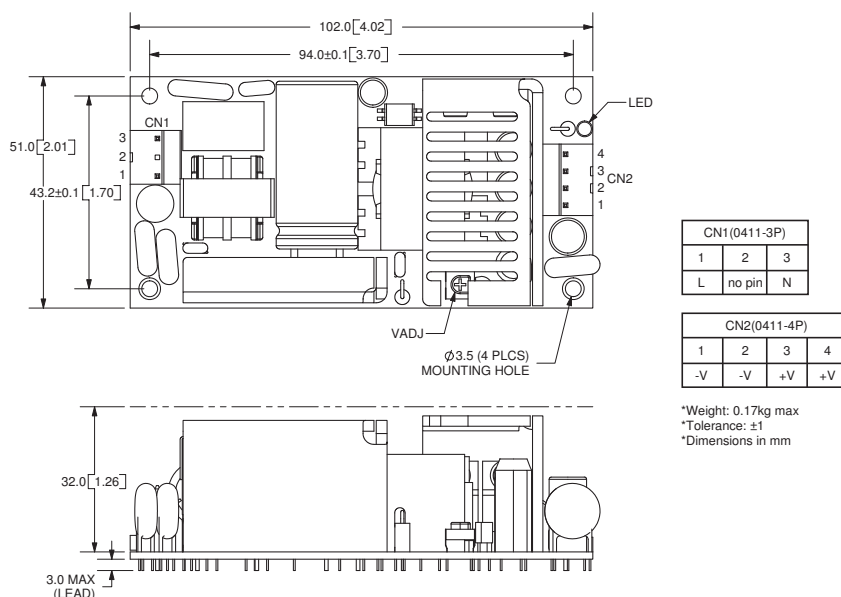
## Mechanical

| Parameter      | Conditions/Description                           | Min | Nom | Max  | Units |
|----------------|--------------------------------------------------|-----|-----|------|-------|
| Dimensions     | 4"(102mm) x 2"(51mm) x 1.26"(32mm)               |     |     |      |       |
| Weight         |                                                  |     |     | 0.17 | kg    |
| Cooling method | free air convection (see derating curve on p. 1) |     |     |      |       |

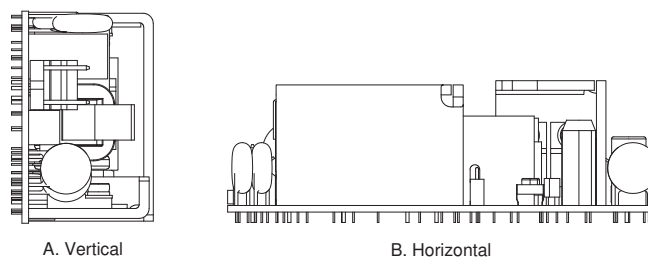
## Mating Connectors

| 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



## Mounting Method



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