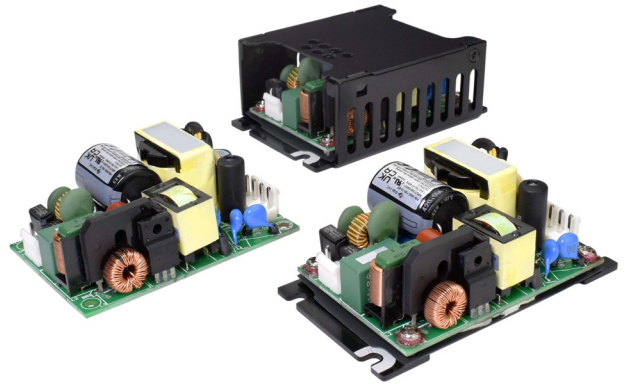


SERIES: VMS-130 | DESCRIPTION: AC-DC POWER SUPPLY
FEATURES

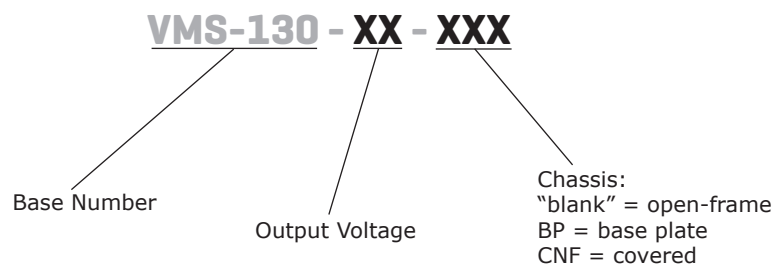
- 80 ~ 264 Vac input voltage range
- 2" x 3" open frame chassis
- 100 W power output with natural convection
- 130 W power output with forced air cooling
- active PFC
- IEC 60601-1 approved
- IEC Class I & Class II safety approved



| MODEL | output voltage | output current ¹ | output power ² | ripple and noise ³ | efficiency ⁴ |
|------------|----------------|-----------------------------|---------------------------|-------------------------------|-------------------------|
| | (Vdc) | max (A) | max (W) | max (mVp-p) | typ (%) |
| VMS-130-12 | 12 | 10.8 | 130 | 120 | 93 |
| VMS-130-24 | 24 | 5.4 | 130 | 240 | 93 |
| VMS-130-36 | 36 | 3.6 | 130 | 360 | 94 |
| VMS-130-48 | 48 | 2.7 | 130 | 480 | 94 |

Notes:

1. Maximum output power of 130 W with 10 CFM forced air cooling, and 100 W with natural convection. See derating curves.
2. With forced air (10 CFM).
3. At full load, nominal input, 20 MHz bandwidth oscilloscope with 10 μ F electrolytic and 0.1 μ F ceramic capacitors.
4. At 230 Vac, 25°C, 75% load.

PART NUMBER KEY


INPUT

| parameter | conditions/description | min | typ | max | units |
|-----------------|--------------------------|-----|-----|------------|--------|
| voltage | | 80 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | at 240 Vac at 100 Vac | | | 0.8 1.5 | A A |
| inrush current | at 240 Vac, cold start | | | 100 | A |
| leakage current | | | | 0.1 | mA |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|----------------------------|--------------------------|-----|-------|-----|-------|
| initial set point accuracy | at full load | | ±2 | | % |
| line regulation | 100 ~ 240 Vac, full load | | ±0.5 | | % |
| load regulation | 10 ~ 100% load | | ±1 | | % |
| hold-up time | at 230 Vac, 25°C | 20 | | | ms |
| temperature coefficient | | | ±0.05 | | %/°C |
| switching frequency | | | 105 | | kHz |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|--------------------------|---|-----|-----|------------------------|--------------------------|
| over voltage protection | auto recovery 12 Vdc output model 24 Vdc output model 36 Vdc output model 48 Vdc output model | | | 13.5 30 42 54 | Vdc Vdc Vdc Vdc |
| short circuit protection | auto recovery, hiccup | | | | |

SAFETY & COMPLIANCE

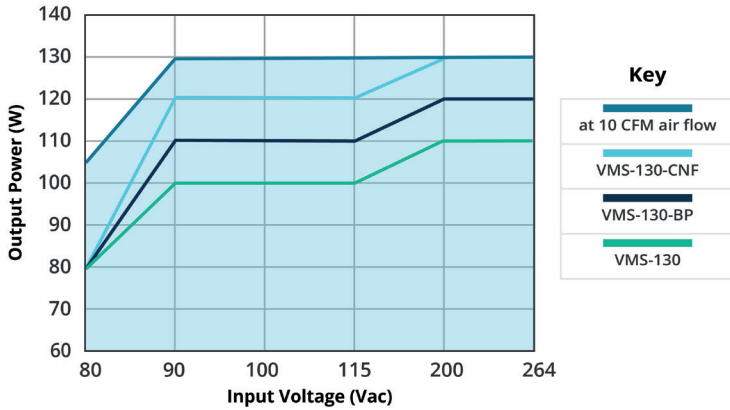
| parameter | conditions/description | min | typ | max | units |
|----------------------------------|---|---------|-----|-----|-------|
| isolation voltage | input to output | 4,000 | | | Vac |
| safety approvals | certified to 60601: IEC/EN/UL | | | | |
| safety class | class I, class II | | | | |
| conducted emissions | EN55011 Class B when test condition is Class I, Class II | | | | |
| radiated emissions | EN55011 Class B when test condition is Class I EN55011 Class A when test condition is Class II | | | | |
| harmonic current | IEC 61000-3-2 | | | | |
| voltage fluctuations and flicker | IEC 61000-3-3:2013 | | | | |
| ESD | IEC 61000-4-2 | | | | |
| radiated immunity | IEC 61000-4-3 | | | | |
| EFT/burst | IEC 61000-4-4 | | | | |
| surge | IEC 61000-4-5 | | | | |
| conducted immunity | IEC 61000-4-6 | | | | |
| voltage dips and interruptions | IEC 61000-4-11 | | | | |
| MTBF | as per MIL-HDBK-217F at 25°C | 400,000 | | | hours |
| RoHS | yes | | | | |

ENVIRONMENTAL

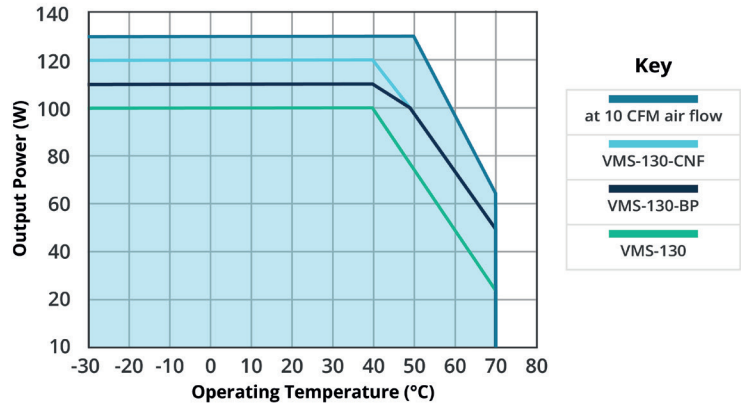
| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | see derating curve | -30 | | 70 | °C |
| storage temperature | | -40 | | 85 | °C |
| operating humidity | non-condensing | | | 93 | % |

DERATING CURVES

INPUT VOLTAGE DERATING CURVE



TEMPERATURE DERATING CURVE



MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|------------|--|-----|-----|-----|--------|
| dimensions | open frame models: 3.000 x 2.000 x 1.200 [76.2 x 50.8 x 30.5 mm] | | | | inches |
| | base plate models: 3.598 x 2.000 x 1.299 [91.4 x 50.8 x 33.0 mm] | | | | inches |
| | covered models: 3.598 x 2.520 x 1.358 [91.4 x 64.0 x 34.5 mm] | | | | inches |
| weight | open frame models | | 135 | | g |
| | base plate models | | 170 | | g |
| | covered models | | 218 | | g |
| cooling | natural convection (no integrated fan), see derating curve | | 100 | | W |
| | 10 CFM | | 130 | | W |

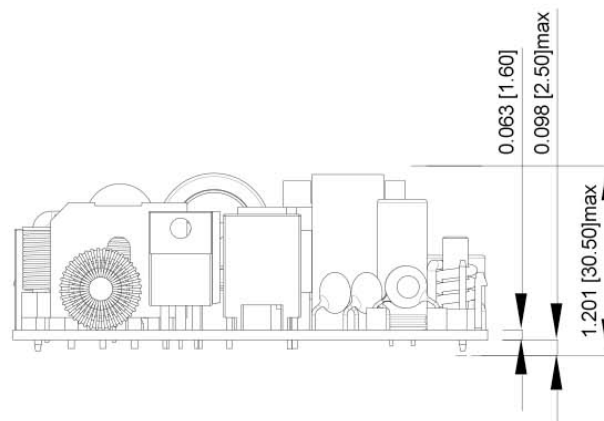
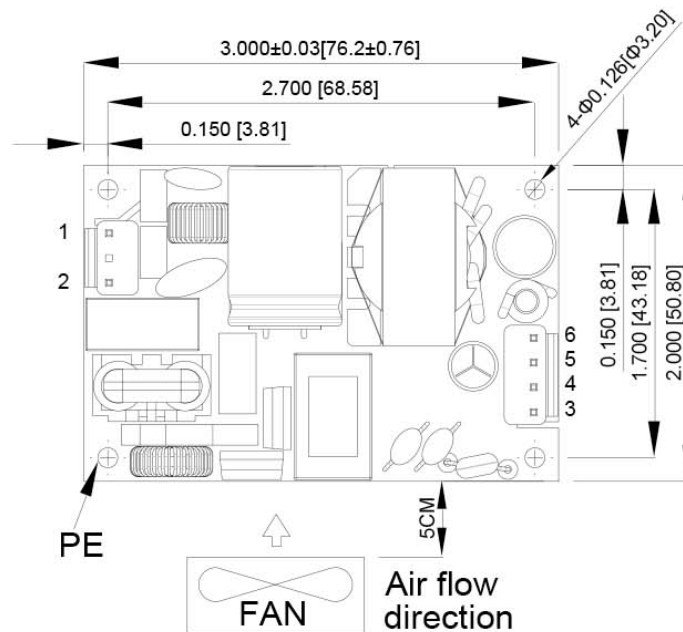
MECHANICAL DRAWING

Open-frame

units: inch [mm]

general tolerance: ±0.02 [±0.5]

| PIN-OUT | |
|---------|----------|
| PIN | Function |
| 1 | AC (L) |
| 2 | AC (N) |
| 3 | -Vo |
| 4 | -Vo |
| 5 | +Vo |
| 6 | +Vo |



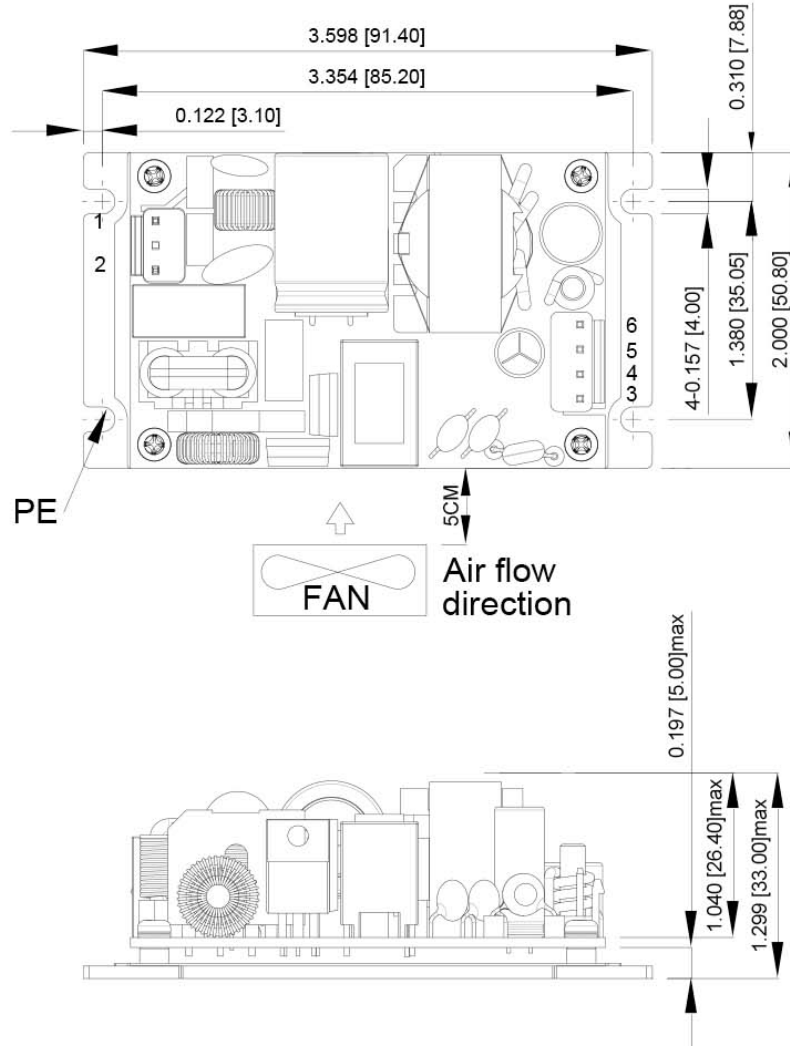
MECHANICAL DRAWING (CONTINUED)

Base plate

units: inch [mm]

general tolerance: ± 0.02 [± 0.5]

| PIN-OUT | |
|---------|----------|
| PIN | Function |
| 1 | AC (L) |
| 2 | AC (N) |
| 3 | -Vo |
| 4 | -Vo |
| 5 | +Vo |
| 6 | +Vo |



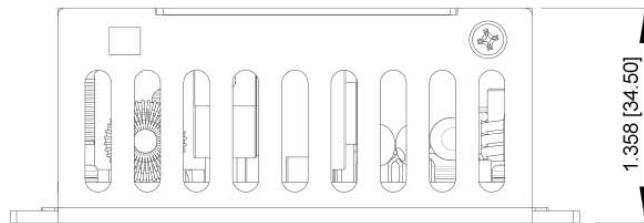
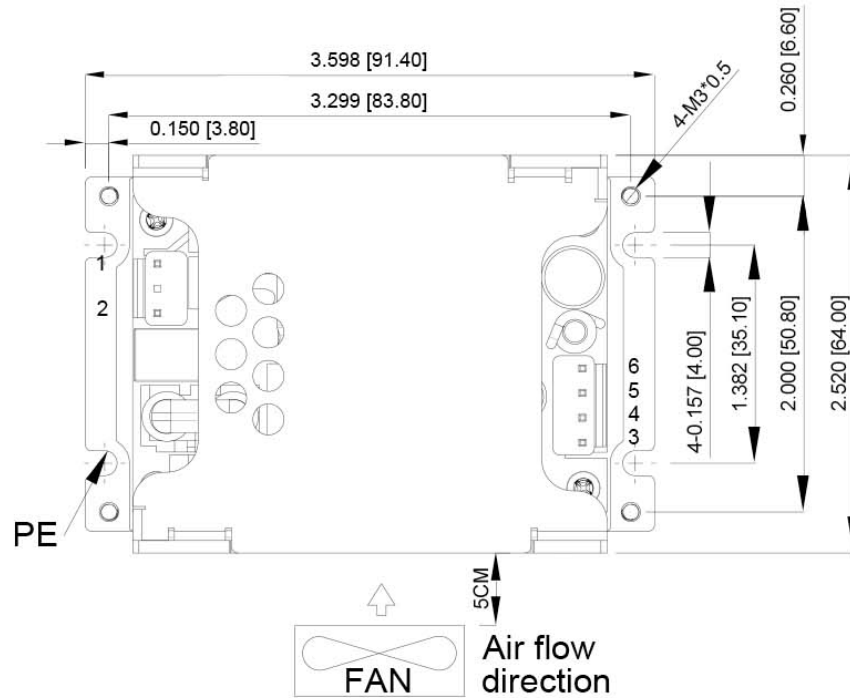
MECHANICAL DRAWING (CONTINUED)

Covered

units: inch [mm]

general tolerance: ± 0.02 [± 0.5]

| PIN-OUT | |
|---------|----------|
| PIN | Function |
| 1 | AC (L) |
| 2 | AC (N) |
| 3 | -Vo |
| 4 | -Vo |
| 5 | +Vo |
| 6 | +Vo |



REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 11/09/2021 |

The revision history provided is for informational purposes only and is believed to be accurate.



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