

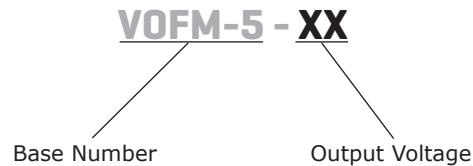
SERIES: VOFM-5 | **DESCRIPTION:** AC-DC POWER SUPPLY**FEATURES**

- up to 5 W continuous power
- compact size
- universal input (85~264 Vac)
- single output from 3.3~24 V
- 6,565 V isolation
- over load, over voltage, and short circuit protections
- full medical safety approvals
- efficiency up to 77%



| MODEL | output voltage | output current | output power | ripple ¹ and noise | efficiency |
|------------|----------------|----------------|--------------|-------------------------------|------------|
| | (Vdc) | max (A) | max (W) | max (mVp-p) | typ (%) |
| VOFM-5-3.3 | 3.3 | 1.25 | 4.125 | 50 | 68 |
| VOFM-5-5 | 5 | 1.0 | 5 | 50 | 72 |
| VOFM-5-9 | 9 | 0.55 | 5 | 90 | 74 |
| VOFM-5-12 | 12 | 0.42 | 5 | 120 | 75 |
| VOFM-5-15 | 15 | 0.33 | 5 | 150 | 75 |
| VOFM-5-18 | 18 | 0.28 | 5 | 180 | 76 |
| VOFM-5-24 | 24 | 0.23 | 5.5 | 240 | 77 |

Notes: 1. Ripple & noise are measured at 20 MHz BW with 0.1 μ F ceramic cap and a 10 μ F electrolytic capacitors on the output

PART NUMBER KEY

INPUT

| parameter | conditions/description | min | typ | max | units |
|----------------|-----------------------------------|-----|-----|-----|-------|
| voltage | | 85 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | at 85 Vac, full load | | | 200 | A |
| inrush current | at 264 Vac, full load, cold start | | | 40 | A |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|-----------------|------------------------------------|-----|------|-----|-------|
| line regulation | high line to low line at full load | | ±0.5 | | % |
| load regulation | 110 Vac at full load to 10% load | | ±1 | | % |
| hold-up time | 115 Vac at full load | 8 | | | ms |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|--------------------------|-------------------------------------|-----|-----|-----|-------|
| over voltage protection | | 130 | | 150 | % |
| over current protection | | | | 180 | %Io |
| short circuit protection | auto recovery upon removal of short | | | | |

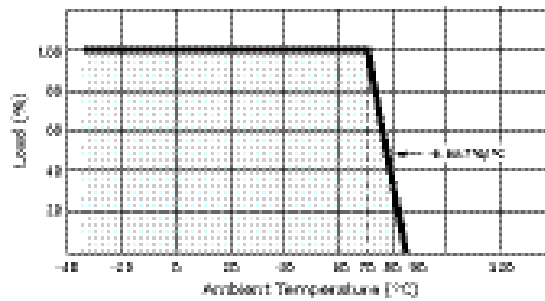
SAFETY & COMPLIANCE

| parameter | conditions/description | min | typ | max | units |
|----------------------|---|----------------|-----|-----|------------|
| isolation voltage | primary to secondary for 1 minute primary to transformer core for 1 minute | 6,565 1,500 | | | Vac Vac |
| isolation resistance | per EN60601-1 | | | | |
| safety approvals | TUV EN 60601-1, CE, UL/cUL 60601-1 (E302945) | | | | |
| EMI/EMC | EN 55011, EN 55022, EN 55024, EN 61204-3, EN 61000-3-(2,3), EN 61000-6-(1,3), EN60601-1-2 | | | | |
| leakage current | | | | 100 | µA |
| RoHS compliant | yes | | | | |

ENVIRONMENTAL

| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | see derating curve | 0 | | 70 | °C |
| storage temperature | | -20 | | 85 | °C |
| operating humidity | non-condensing | 0 | | 93 | % |
| storage humidity | non-condensing | 0 | | 93 | % |

DERATING CURVES

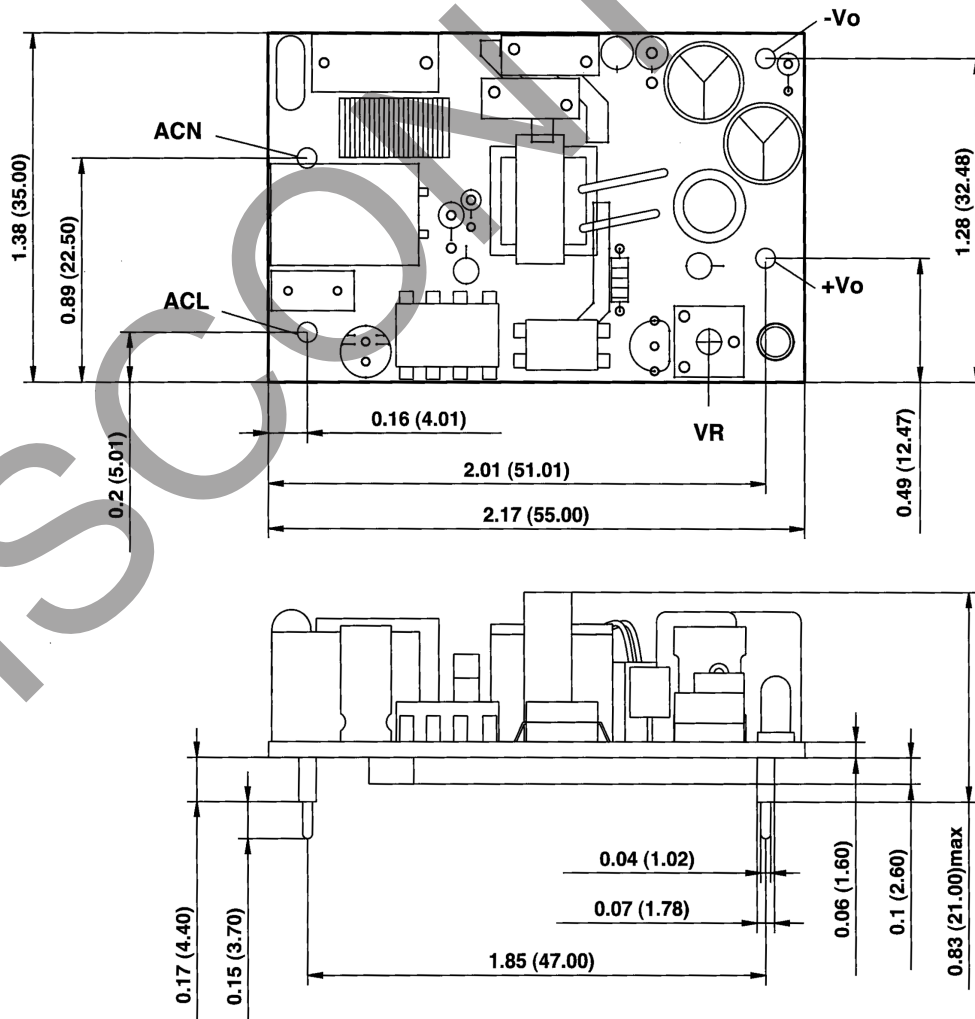


MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|----------------|--|-----|-----|-----|-------|
| dimensions | 2.165 x 1.378 x 0.861 (55.00 x 35.00 x 22.00 mm) | | | | inch |
| cooling method | free air convection | | | | |

MECHANICAL DRAWING

units: inches (mm)



REVISION HISTORY

| rev. | description | date |
|------|---|------------|
| 1.0 | initial release | 03/03/2006 |
| 1.01 | mechanical drawing updates | 12/27/2007 |
| 1.02 | new template applied, V-Infinity branding removed | 08/23/2012 |
| 1.03 | updated features | 11/05/2012 |
| 1.04 | company logo updated | 11/02/2020 |

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



CUI INC

a bel group

Headquarters

20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

CUI offers a two (2) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.