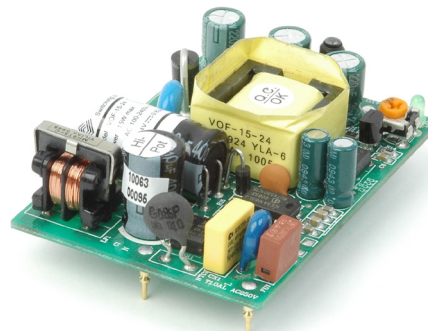




SERIES: VOF-15 | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

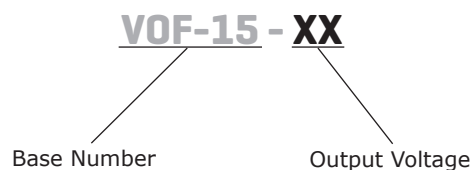
- up to 15 W continuous power
- compact size
- universal input (85~264 Vac / 120~375 Vdc)
- single output from 3.3~48 Vdc
- no minimum load required
- 3000 Vac isolation
- over current, over voltage, and short circuit protections
- UL/cUL and TUV 60950-1 safety approvals
- no load power consumption < 0.5 W
- efficiency up to 83%



MODEL	output voltage	output current max	output power max	ripple ¹ and noise max	efficiency
	(Vdc)	(A)	(W)	(mVp-p)	typ (%)
VOF-15-3.3	3.3	3.0	9.9	100	70
VOF-15-5	5	3.0	15	100	75
VOF-15-9*	9	1.67	15	120	78
VOF-15-12	12	1.25	15	120	80
VOF-15-15	15	1.0	15	150	80
VOF-15-24	24	0.63	15	240	82
VOF-15-48	48	0.31	15	480	83

Notes: 1. Ripple & noise are measured at 20 MHz BW with 47 μ F ceramic and 100 nF electrolytic capacitors on the output
 *. Discontinued

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		85 120		264 375	Vac Vdc
frequency		47		63	Hz
current				0.6	A
inrush current	110 Vac, full load, cold start 220 Vac, full load, cold start			20 40	A A
input fuse	built-in, non-user serviceable				

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	3.3 Vdc model all other models		±0.6 ±0.5		% %
load regulation	3.3 Vdc model all other models		±1.2 ±1		% %
temperature coefficient			±0.05		%/°C
hold-up time	at 115 Vac, full load		16		ms
adjustability	adjustable with built-in trim pot		±5		%
switching frequency			100		kHz
no load power consumption				0.5	W

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	clamped by TVS				
over current protection	5 Vdc model latches off all other models automatically recover		105		%
short circuit protection	protected, long term short circuit may reduce reliability				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 20 mA for 1 minute		3,000		Vac
isolation resistance	input to output at 500 Vdc at 25°C	50			MΩ
safety approvals	TUV EN 60950, UL/cUL 60950-1				
EMI/EMC	FCC class B, EN 55022 class B, CE				
leakage current				0.25	mA
RoHS	2011/65/EU				
MTBF	according to MIL-HDBK-217F	250,000			hours

ENVIRONMENTAL

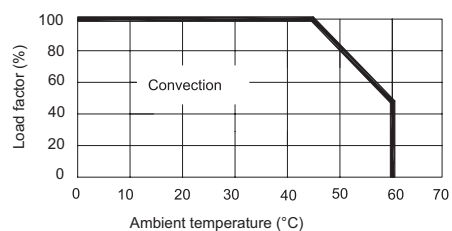
parameter	conditions/description	min	typ	max	units
operating temperature	see derating curve	0		60	°C
storage temperature		-25		75	°C
operating humidity	non-condensing	20		90	%
storage humidity	non-condensing	20		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	70 x 48.6 x 18 (2.76 x 1.91 x 0.71 inches)				mm
cooling method	free air convection (see derating curve below)				

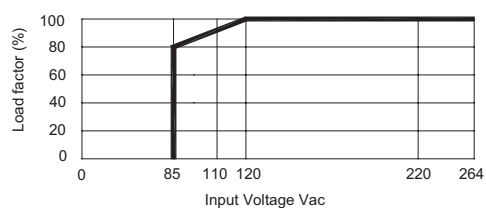
DERATING CURVES

1. output power vs. ambient temp.

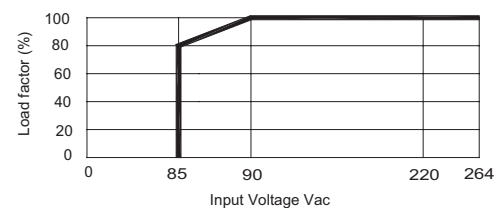


2. output power vs. input voltage

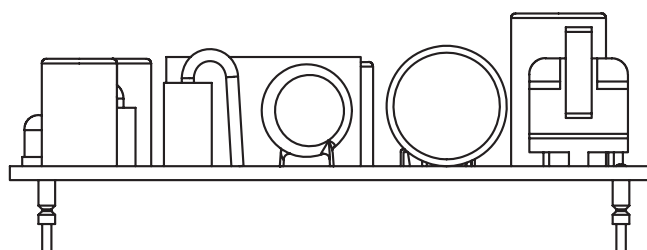
a. 3.3, 5 V models



b. all other models



MOUNTING METHOD

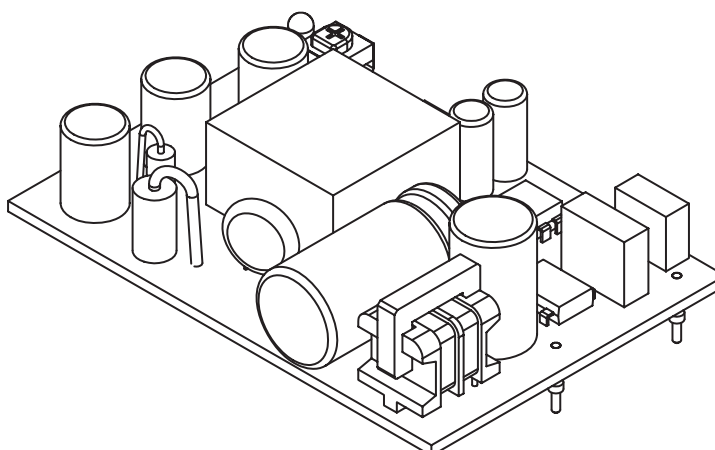
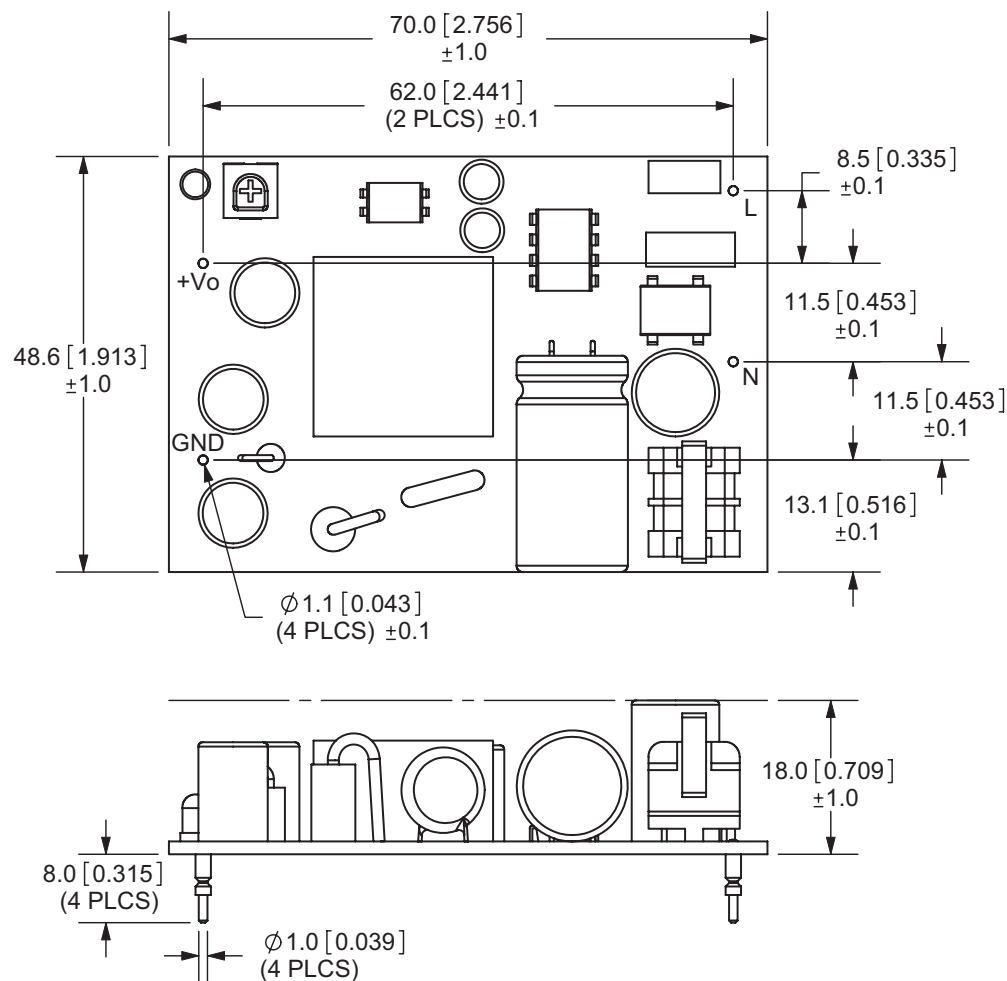


Horizontal

(performance evaluations conducted under this mounting method)

MECHANICAL DRAWING

units: mm [inches]
tolerance: ± 0.3 [± 0.01]
unless otherwise noted



REVISION HISTORY

rev.	description	date
1.0	initial release	03/18/2010
1.01	applied new spec template	05/13/2011
1.02	added MTBF data	09/20/2011
1.03	V-Infinity branding removed	08/16/2012
1.04	5 Vdc model latches off during OCP, outer dimension tolerance changed, discontinued 9 Vdc model	12/30/2015

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



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.