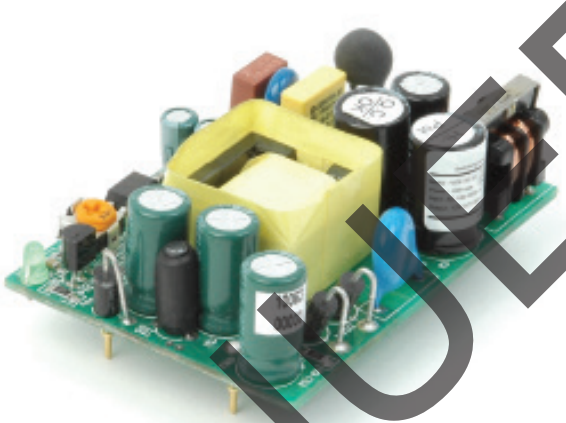
SERIES: VOF-10 | **DESCRIPTION:** AC-DC POWER SUPPLY

DISCONTINUED

FEATURES

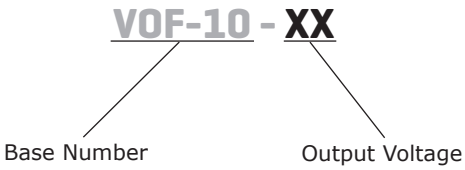
- up to 10 W continuous power
- compact size
- universal input (85~264 Vac / 120~375 Vdc)
- single output from 3.3~48 Vdc
- no minimum load required
- 3000 Vac isolation
- over current, over voltage, and short circuit protections
- UL/cUL and TUV 60950-1 safety approvals
- no load power consumption < 0.5 W
- efficiency up to 78%



MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple[1] and noise max (mVp-p)	efficiency typ (%)
VOF-10-3.3	3.3	2.4	8	100	70
VOF-10-5*	5	2.0	10	100	75
VOF-10-9*	9	1.11	10	120	75
VOF-10-12	12	0.83	10	120	75
VOF-10-15	15	0.67	10	150	75
VOF-10-24*	24	0.42	10	240	78
VOF-10-48*	48	0.21	10	480	78

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

PART NUMBER KEY



Please read our datasheet & drawing disclaimer here.

INPUT

parameter	conditions/description	min	typ	max	units
voltage		85 120		264 375	Vac Vdc
frequency		47		63	Hz
input current				0.6	A
inrush current	110 Vac, full load, cold start 220 Vac, full load, cold start			15 30	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	48 Vdc model all other models			0.7 0.5	W W

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	clamped by TVS				
over current protection	automatically recovers		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 10 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

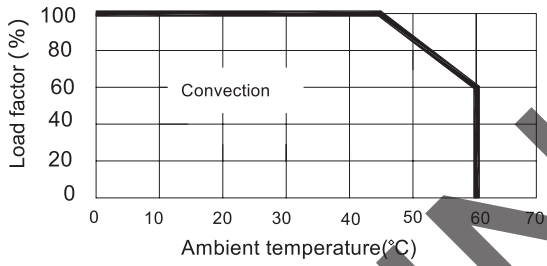
parameter	conditions/description	min	typ	max	units
operating temperature	see derating curve	0		60	°C
storage temperature		-20		85	°C
operating humidity	non-condensing	20		90	%
storage humidity	non-condensing	20		90	%

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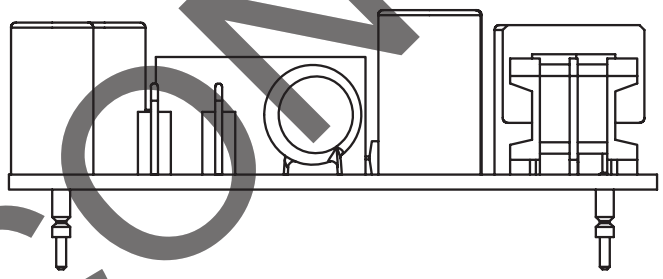
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	65 x 45 x 18.5 (2.56 x 1.77 x 0.73 inches)				mm
cooling method	free air convection (see derating curve below)				

DERATING CURVES



MOUNTING METHOD

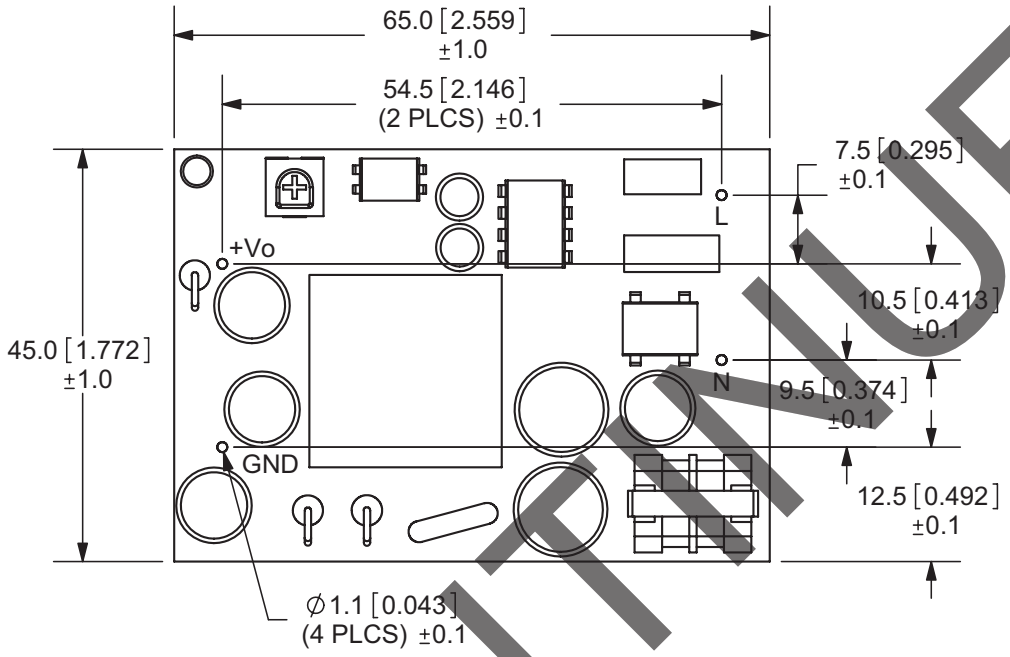


Horizontal
(performance evaluations conducted under this mounting method)

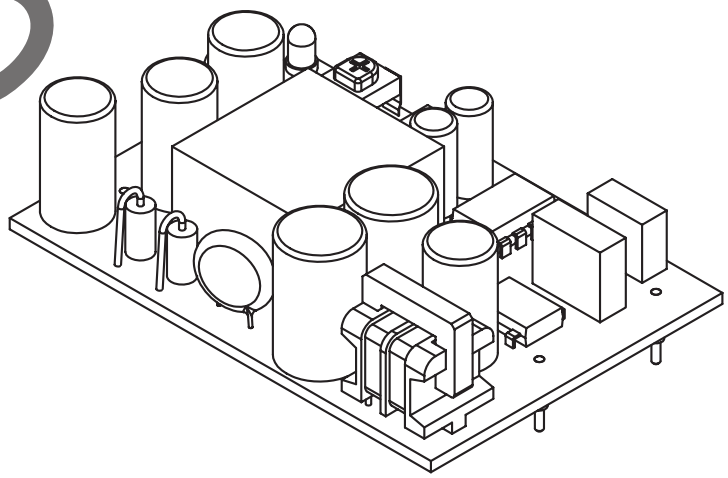
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MECHANICAL DRAWING

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







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REVISION HISTORY

rev.	description	date
1.0	initial release	03/18/2010
1.01	new template applied	05/13/2011
1.02	added MTBF data	09/20/2011
1.03	V-Infinity branding removed	08/21/2012
1.04	discontinued 9 & 48 Vdc models	12/29/2015
1.05	company logo updated	12/03/2020
1.06	discontinued models VOF-10-5 & VOF-10-24	02/09/2023

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

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

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