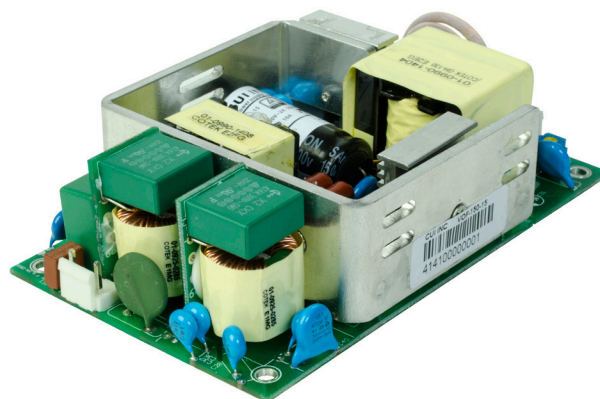


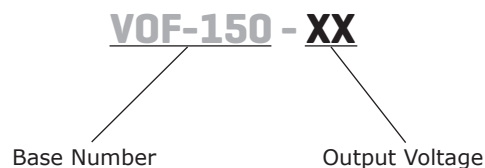
**SERIES: VOF-150 | DESCRIPTION: AC-DC POWER SUPPLY**
**FEATURES**

- up to 150 W continuous power
- compact size
- universal input (90~277 Vac)
- single output from 5~48 Vdc
- active power factor correction
- user trimmable output voltage option
- no load power consumption <0.34W
- 3000 Vac isolation
- over current, over voltage, and short circuit protections
- UL/cUL and TUV 60950-1 safety approvals
- efficiency up to 90%



MODEL	output voltage	output current	output power	ripple and noise <sup>1</sup>	efficiency
	(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VOF-150-5	5	18	90	120	83
VOF-150-12	12	12.5	150	120	87
VOF-150-15	15	10	150	150	88
VOF-150-24	24	6.3	150	240	88
VOF-150-36	36	4.2	150	360	89
VOF-150-48	48	3.2	150	480	90

Notes: 1. Ripple & noise are measured at 20 MHz BW with 0.1  $\mu$ F ceramic cap and a 10  $\mu$ F electrolytic capacitors on the output and the two earth ground pads are connected to input earth ground.

**PART NUMBER KEY**


## INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		277	Vac
frequency		47		63	Hz
input current	at 115 Vac, full load at 230 Vac, full load		2.0 1.0		A A
inrush current	at 230 Vac, cold start		80		A
leakage current	at 277 Vac			3.5	mA
power factor		0.9			
no load power consumption	at 110 Vac at 230 Vac			0.34 0.35	W W
input fuse	6.3 A/250V time delay fuse (included)				

## OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	low line to high line		±0.5		%
load regulation	full load to 10% load		±1		%
initial set point accuracy			±3		%
transient response	1 kHz, 10~100% load				
	VOF-150-5		500		mVp-p
	VOF-150-12		1200		mVp-p
	VOF-150-15		1500		mVp-p
	VOF-150-24		2400		mVp-p
	VOF-150-36		3600		mVp-p
VOF-150-48		4800		mVp-p	
hold-up time	at 115 Vac, full load	8			ms
start-up time	at 115 Vac, full load		50		ms
start-up delay	at 115 Vac, full load		1000		ms
adjustability	built in trim pot		±5		%
temperature coefficient			±0.03		%/°C

## PROTECTIONS

parameter	conditions/description	min	typ	max	units
short circuit protection	hiccup, auto recovery	105			%
over current protection	hiccup, auto recovery	105			%
over voltage protection	clamped by TVS				

## SAFETY & COMPLIANCE

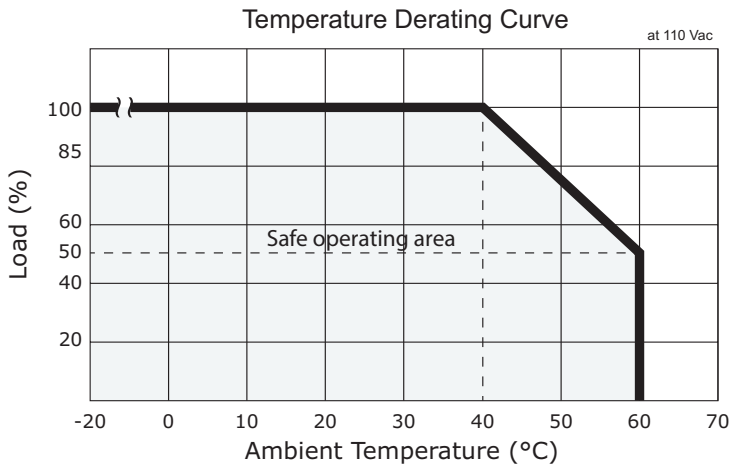
parameter	conditions/description	min	typ	max	units
isolation voltage	input to output	3,000			Vac
	input to ground	1,500			Vac
	output to ground	1,500			Vac
safety approvals	UL60950-1, EN60950-1				
EMI/EMC <sup>1</sup>	EN 55022: 2010 Class B, EN 61204-3:2000, EN 61000-6-3: 2007 +A1: 2011, EN 61000-3-2: 2006 +A2: 2009, EN 61000-3-3: 2008, EN 55024: 2010, EN 61000-6-1: 2007, ENV 50204: 1995, CE, FCC				
class	class II				
MTBF	as per MIL-HDBK-217F at 25 °C, full load	250,000			hours
RoHS	2011/65/EU				

Notes: 1. The power supply is considered a component which will be installed into final equipment. The final equipment still must be tested to meet the necessary EMC directives.

## ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature	see derating curves	-20		60	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	20		90	%
storage humidity	non-condensing	20		90	%
operating altitude			5000		m
vibration & shock	10~3000Hz, 10 minutes per cycle, for 1 hour along each of the X, Y, and Z axes		2		G

## DERATING CURVES



## MECHANICAL

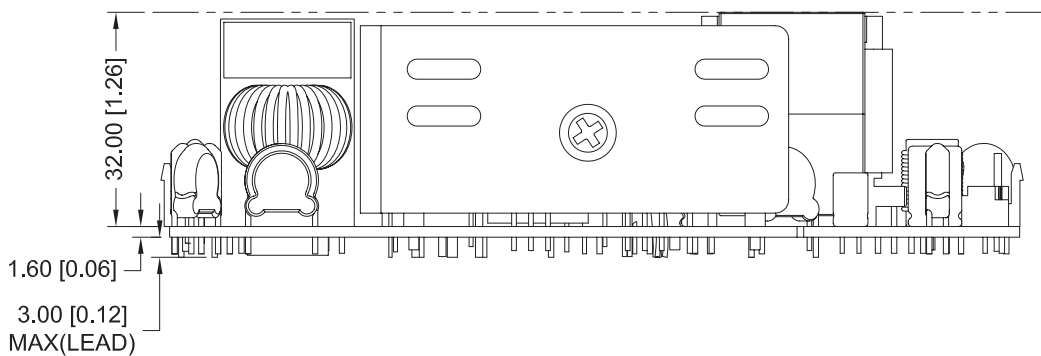
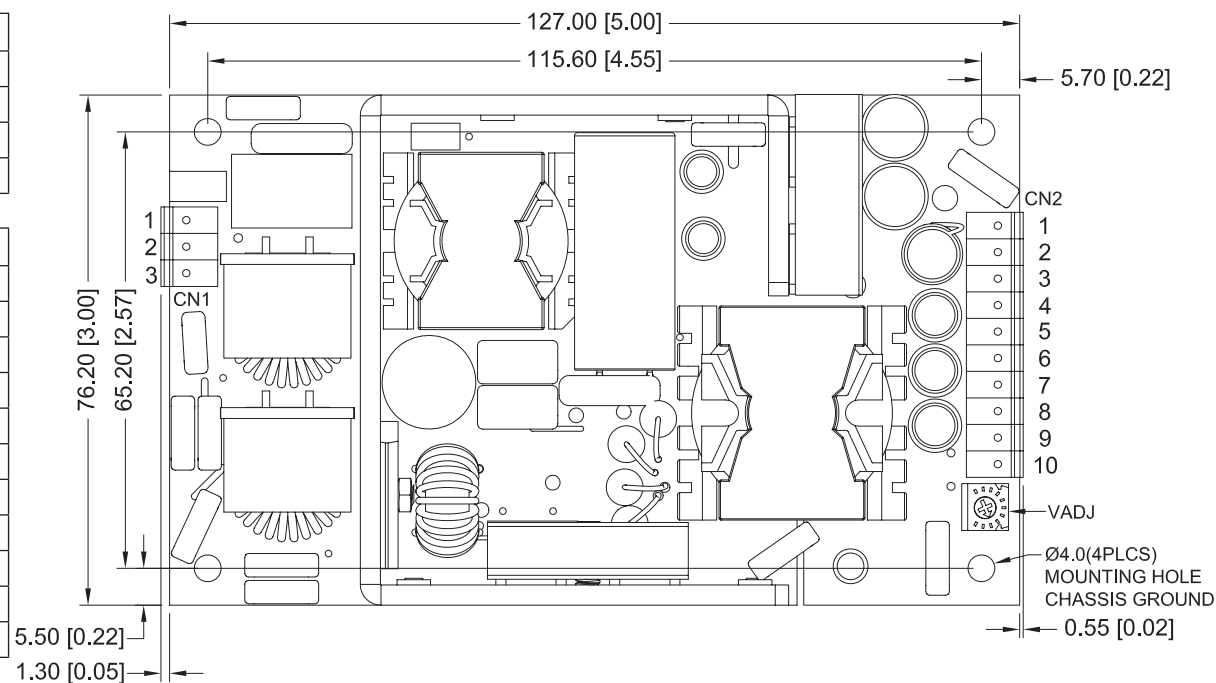
parameter	conditions/description	min	typ	max	units
dimensions	127 x 76.2 x 33.6 (5.00 x 3.00 x 1.32 inch)				mm
weight			368		g
cooling method	open frame (convection)				

## MECHANICAL DRAWING

units: mm[inch]  
tolerance: ±0.30

CN1	
PIN	Function
1	L
2	NP
3	N

CN2	
PIN	Function
1	+Vo
2	+Vo
3	+Vo
4	+Vo
5	+Vo
6	-Vo
7	-Vo
8	-Vo
9	-Vo
10	-Vo



- Notes:
- CN1 mates with Molex housing 09-50-7031 with Molex 2478 series crimp contact or equivalent.
  - CN2 mates with Molex housing 09-50-7101 with Molex 2478 series crimp contact or equivalent.
  - All specifications are measured at Ta=25°C, 230 Vac input voltage, and rated output load unless otherwise specified.

## REVISION HISTORY

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rev.	description	date
1.0	initial release	04/08/2014
1.01	updated datasheet	05/09/2014

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



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