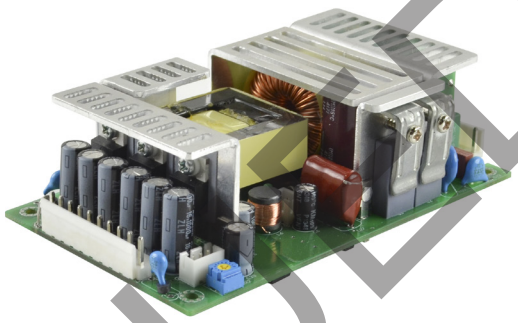
SERIES: VOF-225 | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- up to 225 W continuous power
- universal input voltage range
- industry standard 3" x 5" footprint
- power factor correction
- low no load power consumption
- over voltage, over current, and short circuit protections
- output trim
- UL/cUL and TUV safety approvals
- efficiency up to 91%



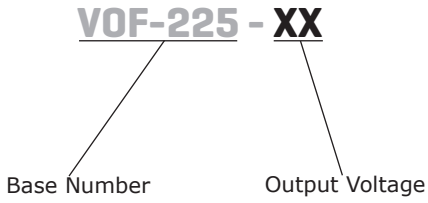
DISCONTINUED

MODEL

MODEL	output voltage (Vdc)	output current max (A)	output power[1] max (W)	ripple and noise[2] max (mVp-p)	efficiency[3] typ (%)
VOF-225-12*	12	18.75	225	120	88
VOF-225-15*	15	15	225	150	90
VOF-225-24*	24	9.38	225	240	90
VOF-225-36	36	6.25	225	360	90
VOF-225-48*	48	4.69	255	480	91

Notes:
1. Maximum output power of 225 W with forced air cooling (34.2 CFM), 135 W with convection cooling.
2. At full load, nominal input, 20 MHz bandwidth oscilloscope, using a 12" twisted pair wire terminated together with a 0.1 µF and 47 µF capacitor.
3. At full load, 230 Vac input, without external fan.
4. All specifications are measured at Ta=25°C, 230 Vac input voltage, and rated output load unless otherwise specified.
5. * Discontinued model.

PART NUMBER KEY



Please read our datasheet & drawing disclaimer here.

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		277	Vac
frequency		47		63	Hz
current	at 115 Vac, full load at 230 Vac, full load		2.8 1.5		A A
inrush current	at 230 Vac, cold start			80	A
leakage current	at 264 Vac			3.5	mA
power factor correction	at 115 Vac, full load at 230 Vac, full load	0.98 0.95			
no load power consumption	at 230 Vac			0.5	W
input fuse	6.3 A / 250 V time delay fuse (included)				

OUTPUT

parameter	conditions/description	min	typ	max	units
initial set point accuracy			±3		%
line regulation			±0.5		%
load regulation	from 100%~10% load		±1		%
transient response	1 kHz, 90%~10% load VOF-225-12 VOF-225-15 VOF-225-24 VOF-225-36 VOF-225-48		 1,200 1,500 2,400 3,600 4,800		 mVp-p mVp-p mVp-p mVp-p mVp-p
start-up delay time	at 115 Vac at 230 Vac		3 2.5		s s
start-up rise time	at 115/230 Vac		60		ms
hold-up time	at 115/230 Vac	10			ms
adjustability	built in trim pot		±5		%
swithching frequency		75		400	kHz
temperature coefficient	at 0~50°C		±0.03		%/°C
fan output	12 Vdc / 300 mA				

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	latch mode VOF-225-12 VOF-225-15 VOF-225-24 VOF-225-36 VOF-225-48	 13.8 16.5 26.5 38.5 55		 15.8 19.5 31.5 43.5 62	 Vdc Vdc Vdc Vdc Vdc
over current protection	hiccup, auto recovery	110			%
short circuit protection	latch				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output input to ground output to ground		3,000 1,500 500		Vac Vac Vac
safety approvals	UL 60950-1, EN 60950-1, IEC 60950-1				

DISCONTINUED

SAFETY & COMPLIANCE (CONTINUED)

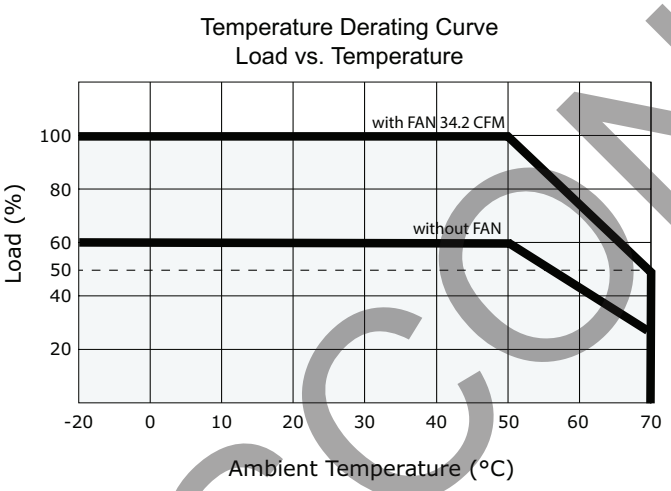
parameter	conditions/description	min	typ	max	units
EMI/EMC[1]	EN 55022: 2010 Class B, EN 61204-3:2000, EN 61000-6-3: 2007 +A1: 2011, EN 61000-3-2: 2006 +A2: 2009, EN 61000-3-3: 2008, EN 55024: 2010, EN 61000-6-1: 2007, ENV 50204: 1995, CE, FCC				
class	class I				
MTBF	as per MIL-HDBK-217F	250,000			hours
RoHS	2011/65/EU				

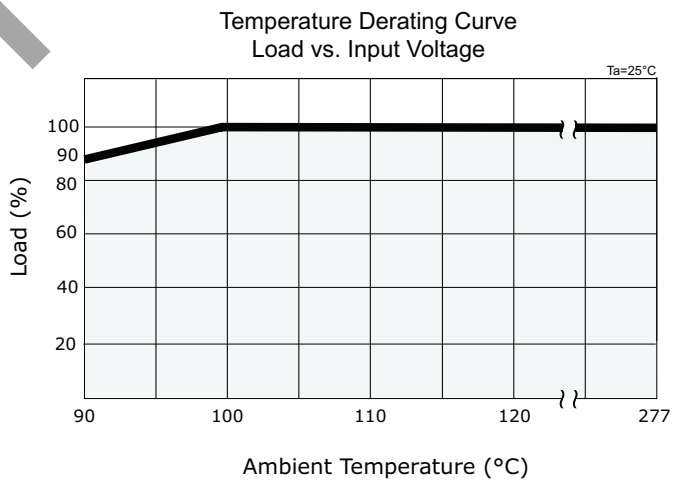
Notes: 1. The power supply is considered a component which will be installed into final equipment. The final equipment still must be tested to meet the necessary EMC directives.

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature	see derating curves	-20		70	°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

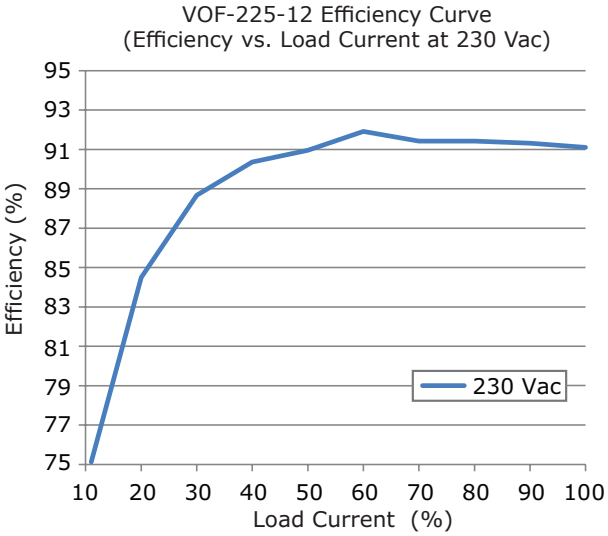
DERATING CURVES

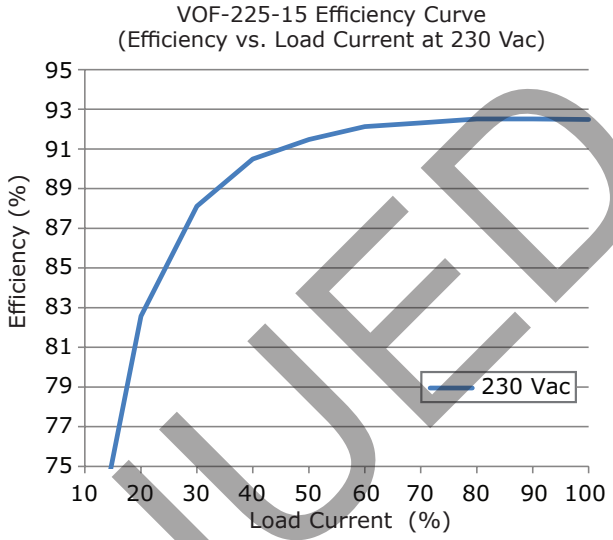


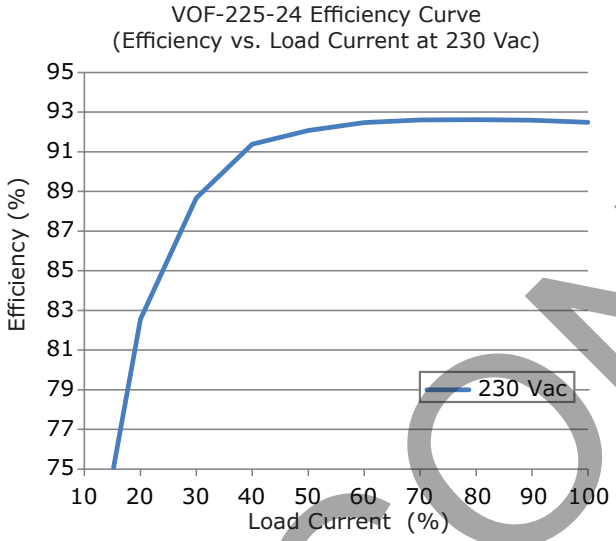


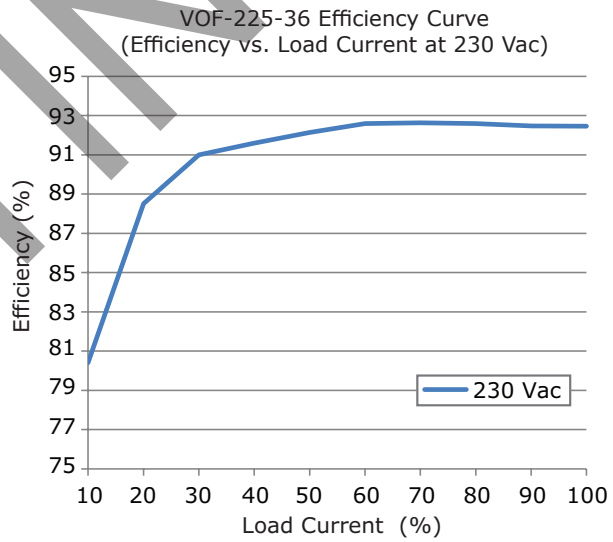
DISCONTINUED

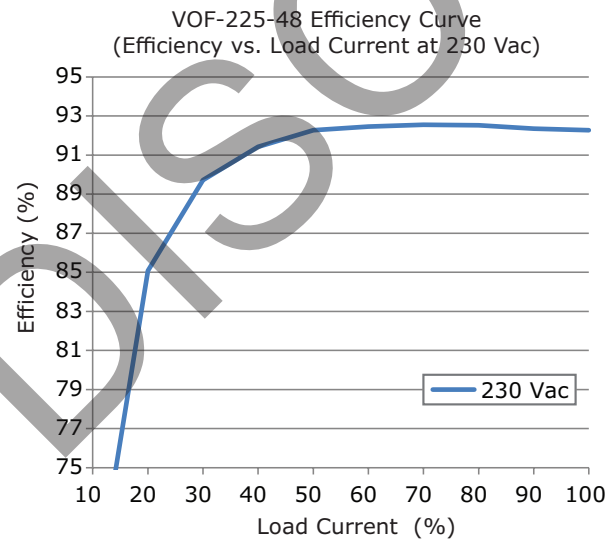
EFFICIENCY CURVES











DISCONTINUED

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	127 x 76.20 x 39.6				mm
weight			0.36		kg
cooling	external fan				
AC input	CN1 mates with Molex 09-50-7031 housing with Molex 2478 series crimp contact or equivalent				
DC output	CN2 mates with Molex 09-50-7101 housing with Molex 2478 series crimp contact or equivalent				
Auxiliary (Fan) output	Fan mates with JST XHP-2 housing with JST SXH-001T-P0.6 contact or equivalent				

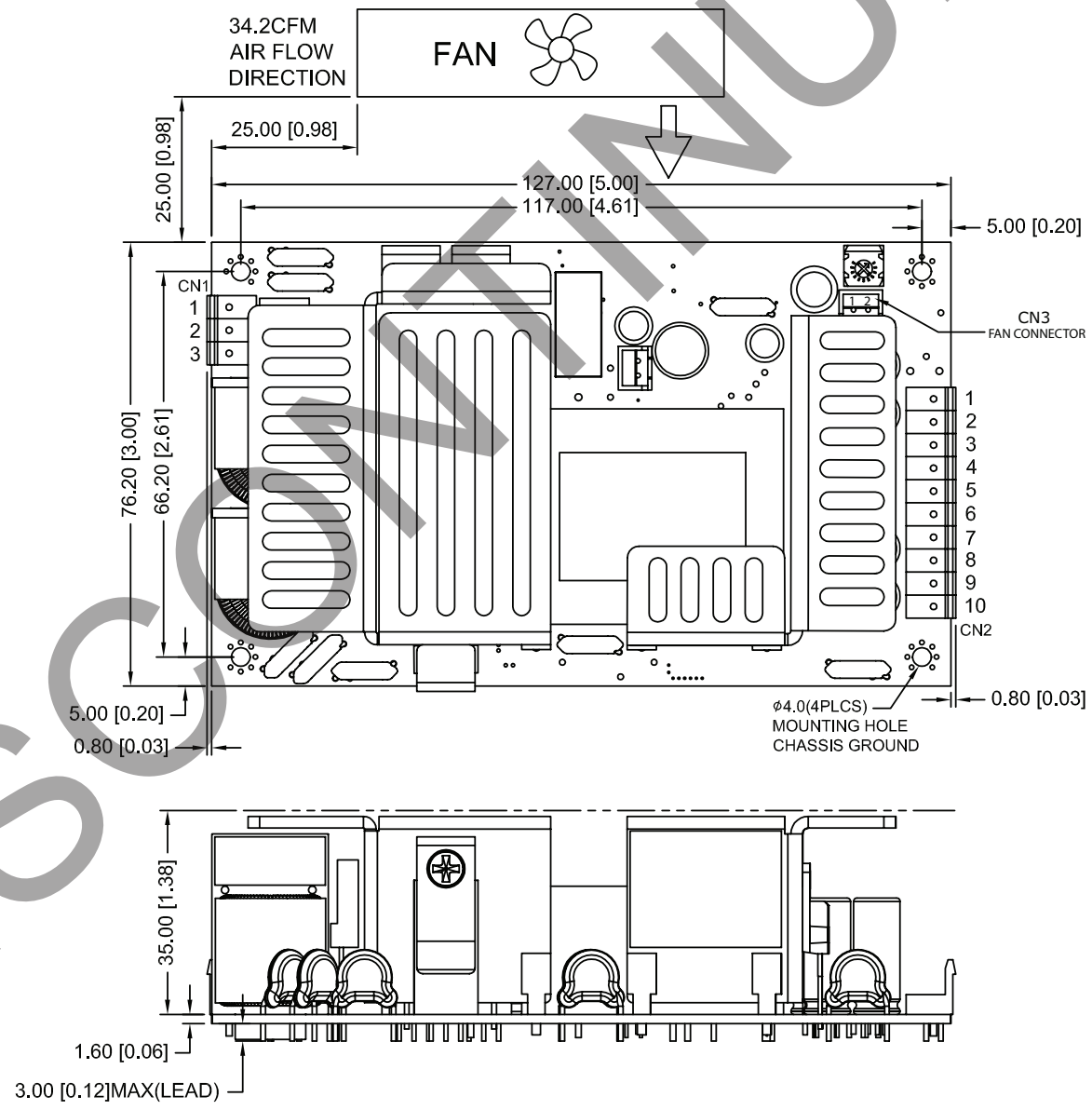
MECHANICAL DRAWING

units: mm [inch]
tolerance: ±0.3 mm

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

CN3 (FAN)	
PIN	Function
1	+FAN
2	-FAN



DISCONTINUED

REVISION HISTORY

rev.	description	date
1.0	initial release	06/27/2016
1.01	added efficiency curves	09/27/2016
1.02	company logo updated	11/30/2020
1.03	discontinued models VOF-225-12, VOF-225-15, VOF-225-24, VOF-225-48	09/13/2022

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

DISCONTINUED

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

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