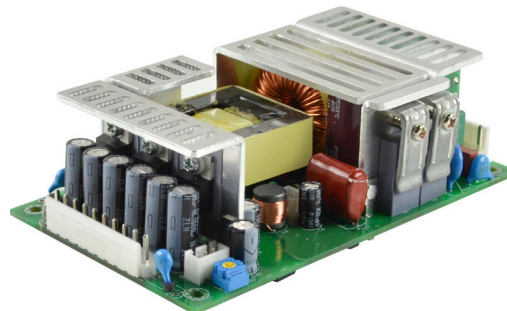



**SERIES:** VOF-225 | **DESCRIPTION:** AC-DC POWER SUPPLY

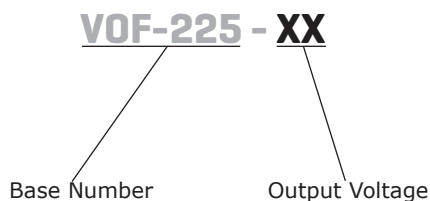
**FEATURES**

- 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%



MODEL	output voltage	output current	output power <sup>1</sup>	ripple and noise <sup>2</sup>	efficiency <sup>3</sup>
	(Vdc)	max (A)	max (W)	max (mVp-p)	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  $\mu$ F and 47  $\mu$ F capacitor.
  3. At full load, 230 Vac input, without external fan.
  4. All specifications are measured at  $T_a=25^\circ\text{C}$ , 230 Vac input voltage, and rated output load unless otherwise specified.

**PART NUMBER KEY**


## INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		277	Vac
frequency		47		63	Hz
current	at 115 Vac, full load		2.8		A
	at 230 Vac, full load		1.5		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	0.98			
	at 230 Vac, full load	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		1,200		mVp-p
	VOF-225-15		1,500		mVp-p
	VOF-225-24		2,400		mVp-p
	VOF-225-36		3,600		mVp-p
	VOF-225-48		4,800		mVp-p
start-up delay time	at 115 Vac		3		s
	at 230 Vac		2.5		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		%
switching 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	13.8		15.8	Vdc
	VOF-225-15	16.5		19.5	Vdc
	VOF-225-24	26.5		31.5	Vdc
	VOF-225-36	38.5		43.5	Vdc
	VOF-225-48	55		62	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		3,000		Vac
	input to ground		1,500		Vac
	output to ground		500		Vac
safety approvals	UL 60950-1, EN 60950-1, IEC 60950-1				

## SAFETY & COMPLIANCE (CONTINUED)

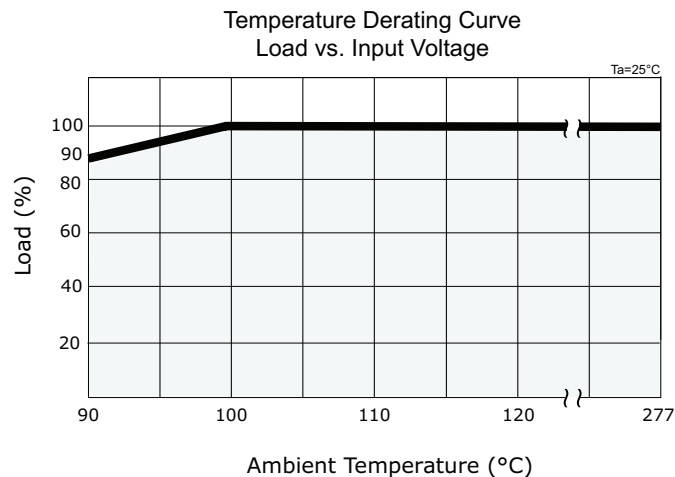
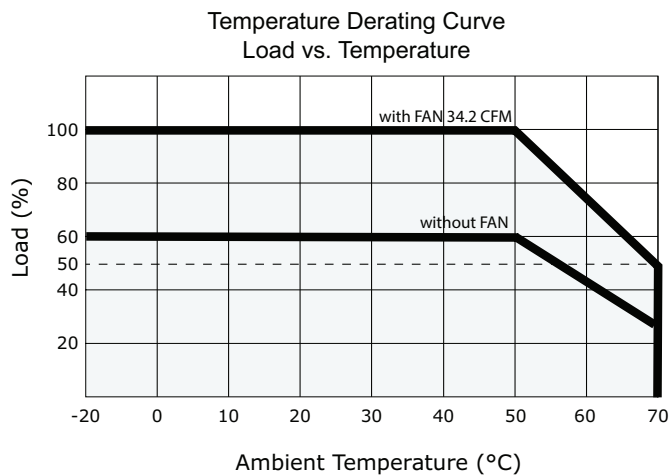
parameter	conditions/description	min	typ	max	units
EMI/EMC <sup>1</sup>	EN 55022: 2010 Class B, EN 61204-3:2000, EN 61000-6-3: 2007 +A1: 2011, EN 61000-3-2: 2006 +A2: 2009, EN 61000-3-3: 2008, EN 55024: 2010, EN 61000-6-1: 2007, ENV 50204: 1995, CE, FCC				
class	class I				
MTBF	as per MIL-HDBK-217F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

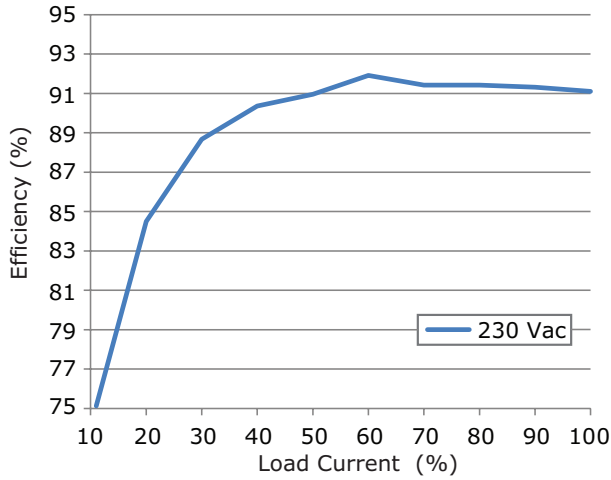
parameter	conditions/description	min	typ	max	units
operating temperature	see derating curves	-20		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	20		90	%
storage humidity	non-condensing	20		90	%
operating altitude			5000		m
vibration & shock	10~3000Hz, 10 minutes per cycle, for 1 hour along each of the X, Y, and Z axes		2		G

## DERATING CURVES

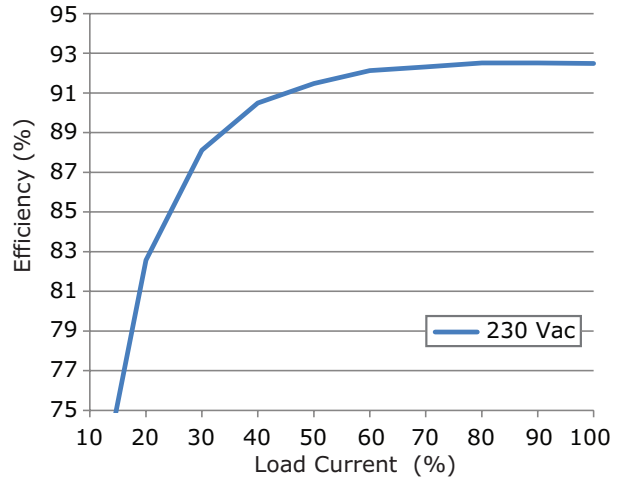


## EFFICIENCY CURVES

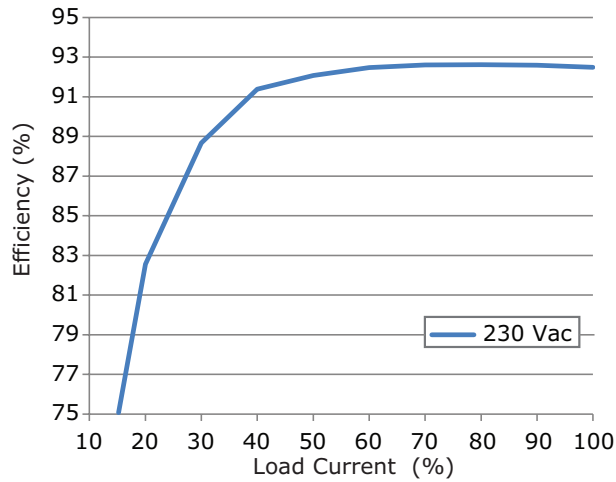
VOF-225-12 Efficiency Curve  
(Efficiency vs. Load Current at 230 Vac)



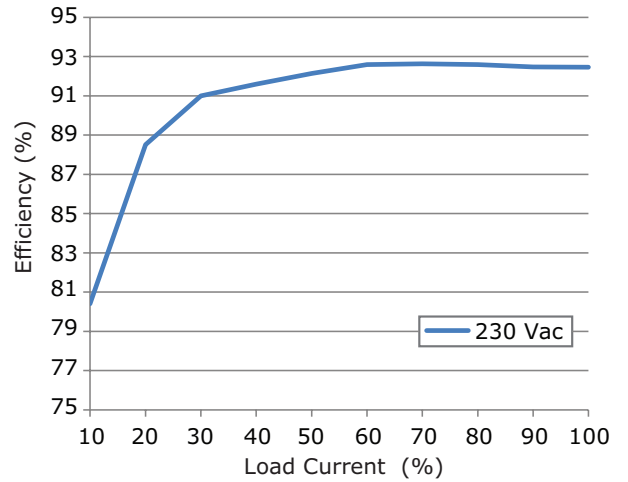
VOF-225-15 Efficiency Curve  
(Efficiency vs. Load Current at 230 Vac)



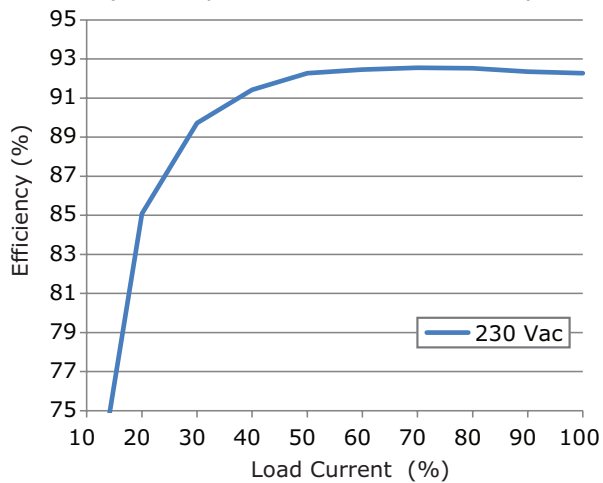
VOF-225-24 Efficiency Curve  
(Efficiency vs. Load Current at 230 Vac)



VOF-225-36 Efficiency Curve  
(Efficiency vs. Load Current at 230 Vac)



VOF-225-48 Efficiency Curve  
(Efficiency vs. Load Current at 230 Vac)





## REVISION HISTORY

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rev.	description	date
1.0	initial release	06/27/2016
1.01	added efficiency curves	09/27/2016

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

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