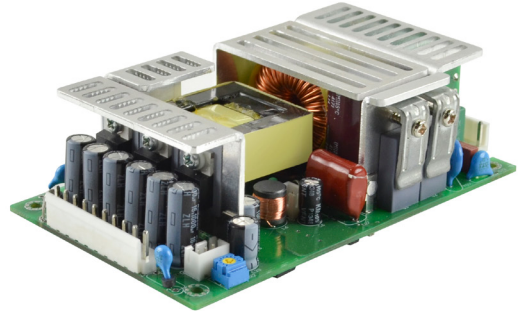




SERIES: VOF-225 | DESCRIPTION: AC-DC POWER SUPPLY

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%

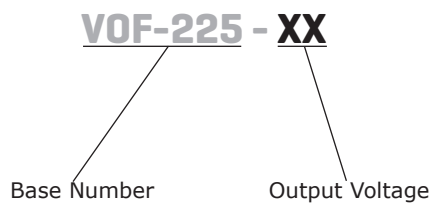


MODEL	output voltage	output current max	output power ¹ max	ripple and noise ² max	efficiency ³ typ
	(Vdc)	(A)	(W)	(mVp-p)	(%)
VOF-225-12	12	18.75	225	120	88
VOF-225-15	15	15	225	150	90
VOF-225-24	24	9.38	225	240	90
VOF-225-36	36	6.25	225	360	90
VOF-225-48	48	4.69	255	480	91

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 μ F and 47 μ F 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.

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 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		%
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 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				

SAFETY & COMPLIANCE (CONTINUED)

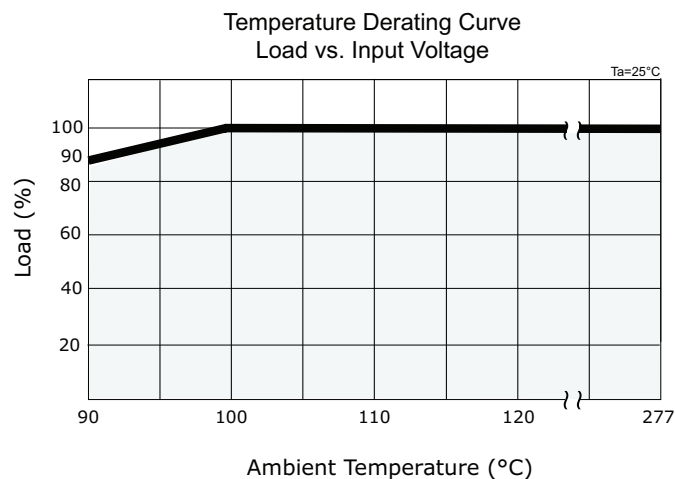
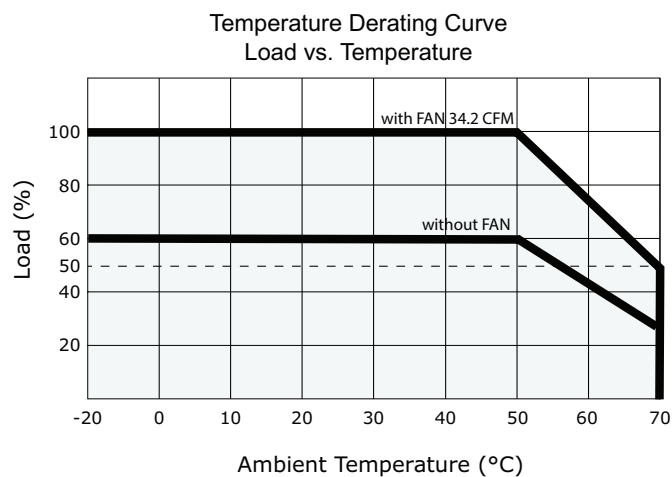
parameter	conditions/description	min	typ	max	units
EMI/EMC ¹	EN 55022: 2010 Class B, EN 61204-3:2000, EN 61000-6-3: 2007 +A1: 2011, EN 61000-3-2: 2006 +A2: 2009, EN 61000-3-3: 2008, EN 55024: 2010, EN 61000-6-1: 2007, ENV 50204: 1995, CE, FCC				
class	class I				
MTBF	as per MIL-HDBK-217F	250,000		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

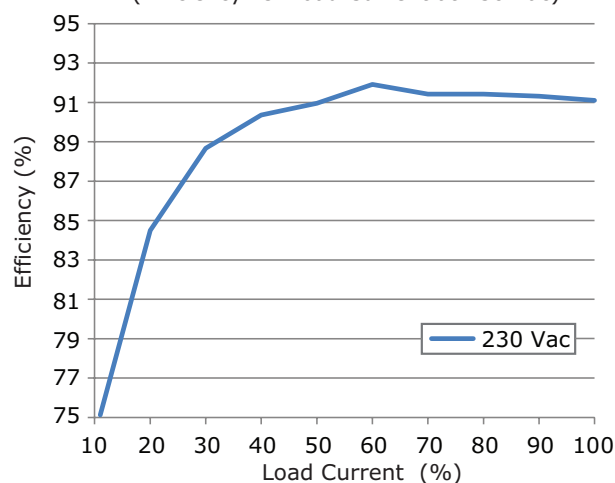
parameter	conditions/description	min	typ	max	units
operating temperature	see derating curves	-20		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	20		90	%
storage humidity	non-condensing	20		90	%
operating altitude			5000		m
vibration & shock	10~3000Hz, 10 minutes per cycle, for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

DERATING CURVES

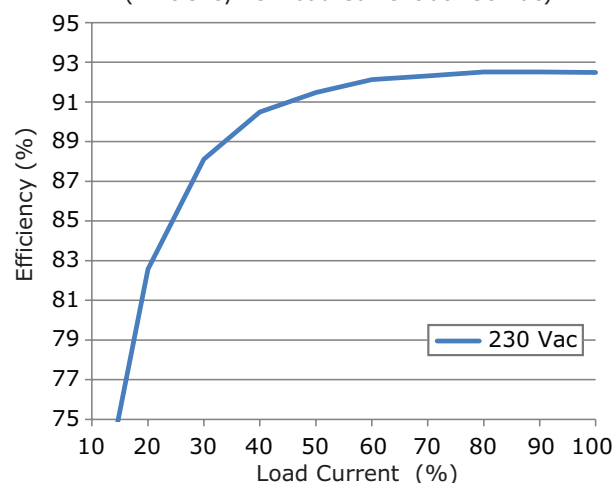


EFFICIENCY CURVES

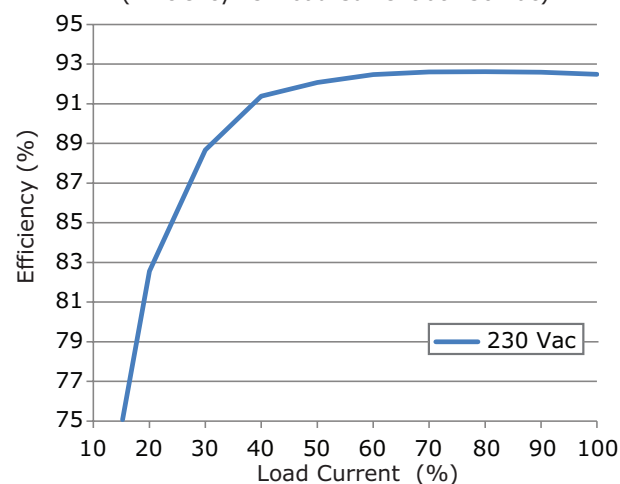
VOF-225-12 Efficiency Curve
(Efficiency vs. Load Current at 230 Vac)



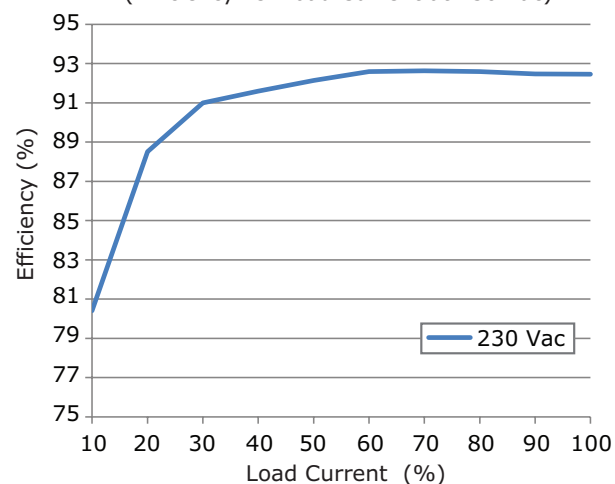
VOF-225-15 Efficiency Curve
(Efficiency vs. Load Current at 230 Vac)



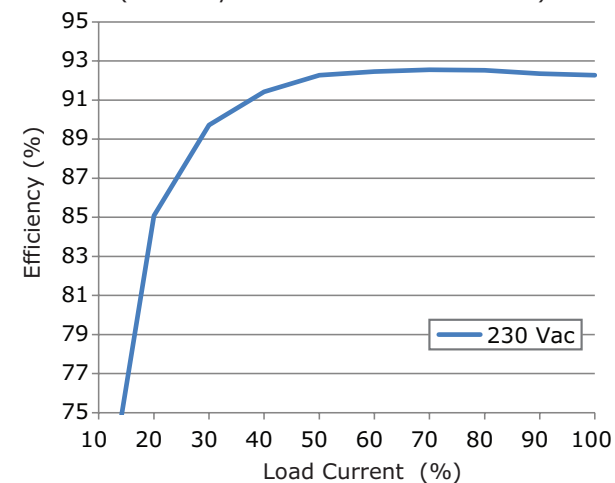
VOF-225-24 Efficiency Curve
(Efficiency vs. Load Current at 230 Vac)



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

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.

**CUI INC[®]**

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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.