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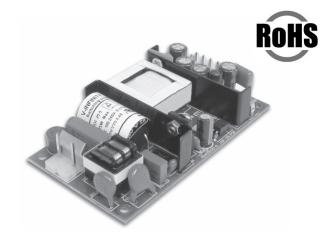
DESCRIPTION: switching power supply

features

- RoHS compliant
- universal input 85~264 Vac

PART NUMBER: VOF-25

- output over-current protected
- output over-voltage protected
- industry standard foot-print
- efficiency up to 82%
- safety approved to TUV, CE; UL/cUL
- conducted EMI meets EN55022 class B and FCC class B



	voltage	current	total 1,2	ripple & noise ³	
model	(Vdc)	(A)	regulation	(mVp-p max)	efficiency
VOF-25-3.3	3.3	4.4	±5%	50	70%
VOF-25-5	5	4.4	±5%	50	73%
VOF-25-7.5	7.5	3.0	±5%	75	73%
VOF-25-9	9	2.7	±5%	90	77%
VOF-25-12	12	2.0	±5%	120	80%
VOF-25-15	15	1.6	±5%	150	80%
VOF-25-24	24	1.0	±5%	240	82%

notes:

- 1. measured from high line to low line at full load.
- 2. measured from full load to 10% load at 110 VAC.
- 3. ripple & noise measured at 20 MHz BW, with a 0.1 µF ceramic cap and a 10 µF electrolytic cap on the output and two earth ground pads are connected to input earth ground.



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PART NUMBER: VOF-25 DESCRIPTION: switching power supply

INPUT

parameter	conditions/description	min	nom	max	units
input frequency		47		63	Hz
input voltage	output power derated from 85-90 VAC	85		264	VAC
input current	AC input of 110 VAC		700		mA
	AC input of 210 VAC		350		mA
inrush current	measured at 110 VAC at full load, cold start			20	Α
	measured at 220 VAC at full load, cold start			40	Α
input fuse	built-in, non-user serviceable.				

OUTPUT

parameter	conditions/description	min r	om max	units
efficiency	see table above. typical values measured a	t 115 VAC, full load.		
hold up time	at 115 VAC, full load	16		mS
adjustability	adjustable with built-in trim pot.	- 5	+5	%
temp. coefficient		-0.05	+0.05	%/°C

PROTECTION CIRCUIT

parameter	conditions/description	
overload	current limiting starts at 105% of the rated output current and	
	recovers automatically.	
output over-voltage	output voltage is limited to 115% by TVS clamping.	
short circuit	protected. long term short circuit may reduce reliability.	

GENERAL AND SAFETY

parameter	conditions/description	min	nom	max	units
switching frequency		45	50	55	kHz
operating temp.	see derating curves.	0		50	°C
storage temp.		-20		85	°C
operating humid.	non-condensing	20%		90%	RH
storage humid.	non-condensing	20%		95%	RH
operating altitude				3,000	m
				10,000	ft
storage altitude				9,000	m
				30,000	ft
EMI	nonducted emissions comply with FCC class B,	EN55022 class B			
safety	approved to TUV EN60950, CE, CB; UL/cUL	60950-1			
RoHS	2002/95/EC				
leakage current	per EN60950, 264 VAC			1.5	mA
isolation voltage	applied for 1 minute.				
(HI-POT)	primary to secondary:	3000			VAC
	primary to transformer core:	1500			VAC
	primary to earth ground:	1500			VAC
insulation resistance	measured at 500 VDC, at room temp.	50			МΩ
MTBF (@ 25°C)	MIL-HDBK-217F	250K			hours
warranty	standard warranty length			2	years
	<u> </u>				



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PART NUMBER: VOF-25 **DESCRIPTION:** switching power supply

MECHANICAL

parameter	conditions/description	min	nom	max	units
dimensions	3.5"(88.9mm) x 2"(51mm) x 0.8"(20.32mm)				
weight				0.09	kg
cooling method	free air convection (see derating curve on p. 1)				

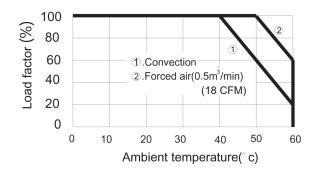
MATING CONNECTORS

parameter	conditions/description
AC input (CN1)	mates with Molex housing 09-50-3031 with Molex 2878 series crimp contact.
DC output (CN2)	mates with Molex housing 09-50-3041 with Molex 2878 series crimp contact.

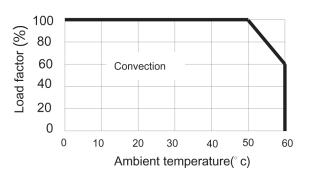
DERATING CURVES

1. output power vs. ambient temperature

a. 3.3 V and 5 V models



b. all other models



2. output power vs. input voltage

all models

