

Excellent Integrated System Limited

Stocking Distributor

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<u>CUI Inc.</u> <u>VOF-25-5</u>

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





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SERIES: VOF-25 | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

- up to 25 W continuous power
- compact size
- universal input (85~264 Vac)
- single output from $3.3 \sim 24 \text{ V}$
- user trimmable output voltage
- 3000 V isolation
- $\ensuremath{\bullet}$ over current, over voltage, and short circuit protections
- UL/cUL and TUV 60950-1 safety approvals
- efficiency up to 82%



MODEL	output voltage	output current	output power	ripple ¹ and noise	efficiency	
	(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)	
VOF-25-3.3	3.3	4.4	15	50	70	
VOF-25-5	5	4.4	22	50	73	
VOF-25-7.5	7.5	3.0	23	75	73	
VOF-25-9	9	2.7	24	90	77	
VOF-25-12	12	2.0	24	120	80	
VOF-25-15	15	1.6	24	150	80	
VOF-25-24	24	1.0	24	240	82	_

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

PART NUMBER KEY



Base Number

Output Voltage



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INPUT

parameter	conditions/description	min	typ	max	units
voltage		85 120		264 375	Vac Vdc
frequency		47		63	Hz
current	at 110 Vac at 220 Vac		0.7 0.35		A A
inrush current	at 110 Vac, full load, cold start at 220 Vac, full load, cold start			20 40	A A
input fuse	built-in, non-user serviceable				

OUTPUT

conditions/description		min	typ	max	units
high line to low line at full load			±0.5		%
full load to 10% load			±1		%
			±0.05		%/°C
115 Vac at full load		16			ms
adjustable with built-in trim pot		-5		+5	%
		45	50	55	kHz
	high line to low line at full load full load to 10% load 115 Vac at full load	high line to low line at full load full load to 10% load 115 Vac at full load	high line to low line at full load full load to 10% load 115 Vac at full load adjustable with built-in trim pot 5	high line to low line at full load ± 0.5 full load to 10% load ± 1 ± 0.05 ± 1.5 115 Vac at full load16adjustable with built-in trim pot5	high line to low line at full load ±0.5 full load to 10% load ±1 ±0.05 ±1 115 Vac at full load 16 adjustable with built-in trim pot 5 +5

PROTECTIONS

parameter	conditions/description		min	typ	max	units
over voltage protection	clamped by TVS				115	%
over current protection	automatically recovers			105		%Io
short circuit protection	protected, long term short circuit may redu reliability	ice				

SAFETY & COMPLIANCE

parameter	conditions/description	min	nom	max	units
	primary to secondary for 1 minute	3,000			Vac
isolation voltage	primary to transformer core for 1 minute	1,500			Vac
	primary to ground for 1 minute	1,500			Vac
isolation resistance	input to output at 500 Vdc at 25°C	50			MΩ
safety approvals	TUV EN 60950, CE, UL/cUL 60950-1				
EMI/EMC	FCC class B, EN 55022 class B				
leakage current				1.5	mA
RoHS compliant	yes				
MTBF	according to MIL-HDBK-217F	250,000			hours

ENVIRONMENTAL

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parameter	conditions/description	min	nom	max	units
operating temperature	see derating curve	0		60	°C
storage temperature		-20		85	°C
operating humidity	non-condensing	20		90	%
storage humidity	non-condensing	20		95	%
operating altitude			10,000		ft
			3,000		m
storage altitude			30,000		ft
			9,000		m

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Distributor of CUI Inc.: Excellent Integrated System Limited Datasheet of VOF-25-5 - AC/DC CONVERTER 5V 25W Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com For more information, please visit the product page.

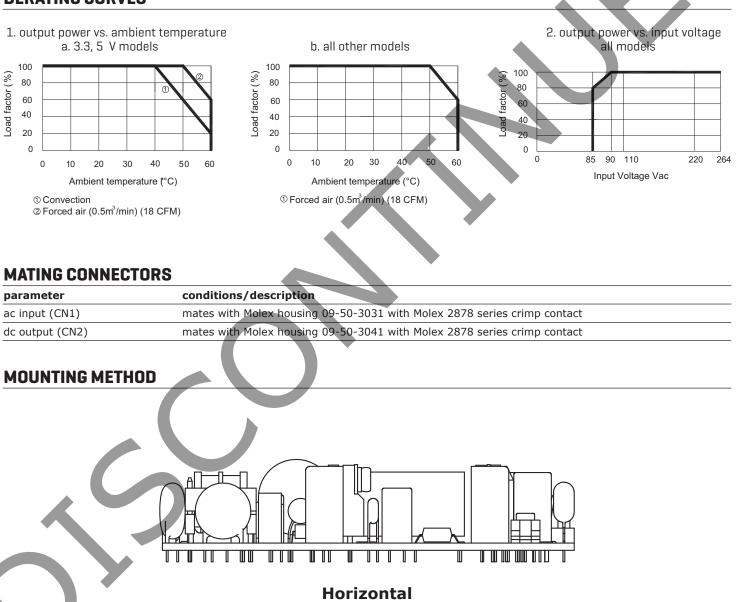
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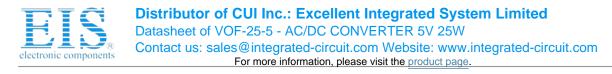
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MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	3.500 x 2.008 x 0.9803 (88.9 x 51 x 24.9 mm)				inch
weight				0.09	kg
cooling method	free air convection or forced air (see derating curves below)				

DERATING CURVES

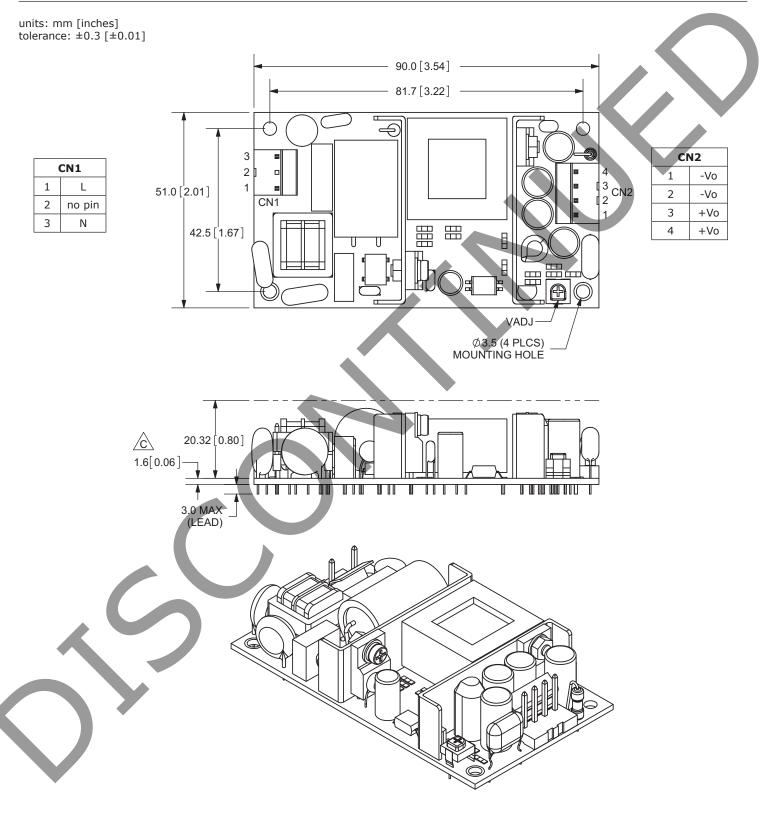




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MECHANICAL DRAWING





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REVISION HISTORY

rev.	description	date
1.0	initial release	04/03/2009
1.01	corrected CN1 connector designation on mech drawing	02/16/2010
1.02	dimension added to drawing	05/02/2011
1.03	new template applied	05/13/2011
1.04	added MTBF data	09/20/2011
1.05	V-Infinity branding removed	08/17/2012

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



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

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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.