

FEATURES

- up to 65 W continuous power
- industry standard footprint
- universal input (85~264 Vac)
- single output from 3.3~48 V
- user trimmable output voltage
- 3000 V isolation
- over current, over voltage, and short circuit protections
- UL/cUL and TUV 60950-1 safety approvals
- efficiency up to 88%



MODEL	output voltage	output current	output power	ripple ¹ and noise	efficiency
	(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VOF-65-3.3	3.3	8.0	26	50	74
VOF-65-5	5	8.0	40	50	78
VOF-65-7.5	7.5	6.6	50	75	78
VOF-65-9	9	6.6	60	90	82
VOF-65-12	12	5.4	65	120	84
VOF-65-15	15	4.3	65	150	85
VOF-65-24	24	2.7	65	240	86
VOF-65-48	48	1.35	65	480	88

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

INPUT

parameter	conditions/description	min	typ	max	units
voltage		85		264	Vac
frequency		47		63	Hz
input current	110 Vac 220 Vac		1.4 0.7		A A
inrush current	115 Vac, full load, cold start 220 Vac, full load, cold start			25 50	AA
input fuse	built-in, non-user serviceable				

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	high line to low line at full load		±0.5		%
load regulation	full load to 10% load		±1		%
temperature coefficient			±0.05		%/°C
hold-up time	115 Vac at full load	8			ms
adjustability	adjustable with built-in trim pot	-5		+5	%
switching frequency			60		kHz
OUTPUT					

OUTPUT

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 rec reliability	duce			

SAFETY & COMPLIANCE

parameter	conditions/description	min typ 3,000		max	units	
	primary to secondary for 1 minute				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

parameter	conditions/description	min	typ	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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MECHANICAL

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parameter	conditions/	description	min	typ	max	units
limensions	4 x 2 x 1.44	(102 x 51 x 36.6 mm)				inch
veight					0.17	kg
ooling method		ection or forced air curves below)				
	(ระษายะสมกับ					$\mathbf{\nabla}$
DERATING CURVE	S					
1. output power vs. ambi a. 3.3, 5, ⁻	ent temperature 7.5 V models	b. all other m	odels	2. outpu	ut power vs. ing all models	out voltage
000 08 09 04 04 05 05		001 003 03 03 04 04 05 04 06 04 07 04 08 04 09 04 09 04 00 04 01 04 02 04 03 04 04 04 05 04 04 04 05 04 04 04 05 04 06 04 07 04 08 04 09 04 04 04 05 04 06 04 07 04 08 04 09 04 04 04 05 04 06 04 07 04 08 04 09	Load factor(%)	100 80 60 40 20		
0 10 20	30 40 50 60	0 10 20 30	40 50 60	0	85 90 110	220 2
	mperature(°c)	Ambient temperate	ure(°C)		Input Voltage V	ac
① Convection ② Forced air (0.5n	n ³ /min) (18 CFM)	① Convection ② Forced air (0.5m³/min) (18 CFM)			
MATING CONNECT	ORS					
arameter	conditions/	description				
c input (CN1)	mates with N	lolex housing 09-50-3031 with	Molex 2878 series cr	imp contact		
c output (CN2)	mates with M	lolex housing 09-50-3041 with	Molex 2878 series cr	imp contact		
MOUNTING METH	0D					
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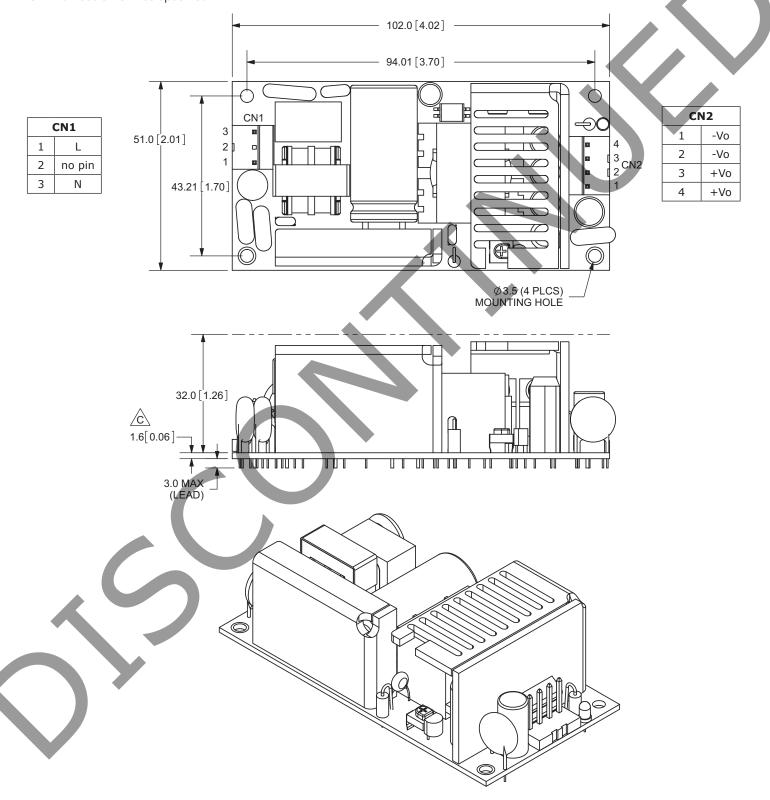
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MECHANICAL DRAWING



±1.0mm unless otherwise specified



REVISION HISTORY

	Γ	
rev.	description	date
1.0	initial release	03/13/2009
1.01	mechanical drawing updates	08/20/2010
1.02	dimension added to drawing	05/02/2011
1.03	applied new spec template	05/13/2011
1.04	added MTBF data	09/20/2011
1.05	V-Infinity branding removed	08/16/2012

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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