

SERIES: VOFG-5 | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

- up to 5 W continuous power
- compact size
- universal input (85~264 Vac)
- single output from 3.3~24 V
- 6,565 V isolation
- over load, over voltage, and short circuit protections
- full medical safety approvals
- efficiency up to 77%



MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple ¹ and noise max (mVp-p)	efficiency typ (%)
VOFG-5-3.3	3.3	1.25	4.125	50	68
VOFG-5-5	5	1.0	5	50	72
VOFG-5-9	9	0.55	5	90	74
VOFG-5-12	12	0.42	5	120	75
VOFG-5-15	15	0.33	5	150	75
VOFG-5-18	18	0.28	5	180	76
VOFG-5-24	24	0.23	5.5	240	77

Notes: 1. Ripple & noise are measured at 20 MHz BW with 0.1 μ F ceramic cap and a 10 μ F electrolytic capacitors on the output

PART NUMBER KEY

VOFG-5 - XX

Base Number

Output Voltage

INPUT

parameter	conditions/description	min	typ	max	units
voltage		85		264	Vac
frequency		47		63	Hz
current	at 85 Vac, full load			200	A
inrush current	at 264 Vac, full load, cold start			40	A

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	high line to low line at full load		±0.5		%
load regulation	110 Vac at full load to 10% load		±1		%
hold-up time	115 Vac at full load	8			ms

OUTPUT

parameter	conditions/description	min	typ	max	units
over voltage protection		130		150	%
over current protection				180	%Io
short circuit protection	auto recovery upon removal of short				

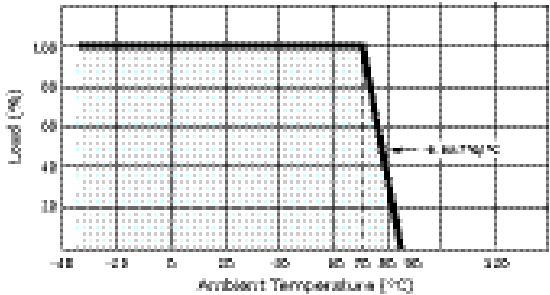
SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	primary to secondary for 1 minute	6,565			Vac
	primary to transformer core for 1 minute	1,500			Vac
isolation resistance	per EN60601-1				
safety approvals	TUV EN 60601-1, CE, UL/cUL 60601-1 (E302945)				
EMI/EMC	EN 55011, EN 55022, EN 55024, EN 61204-3, EN 61000-3-(2,3), EN 61000-6-(1,3), EN60601-1-2				
leakage current				100	µA
RoHS compliant	yes				

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature	see derating curve	0		70	°C
storage temperature		-20		85	°C
operating humidity	non-condensing	0		93	%
storage humidity	non-condensing	0		93	%

DERATING CURVES

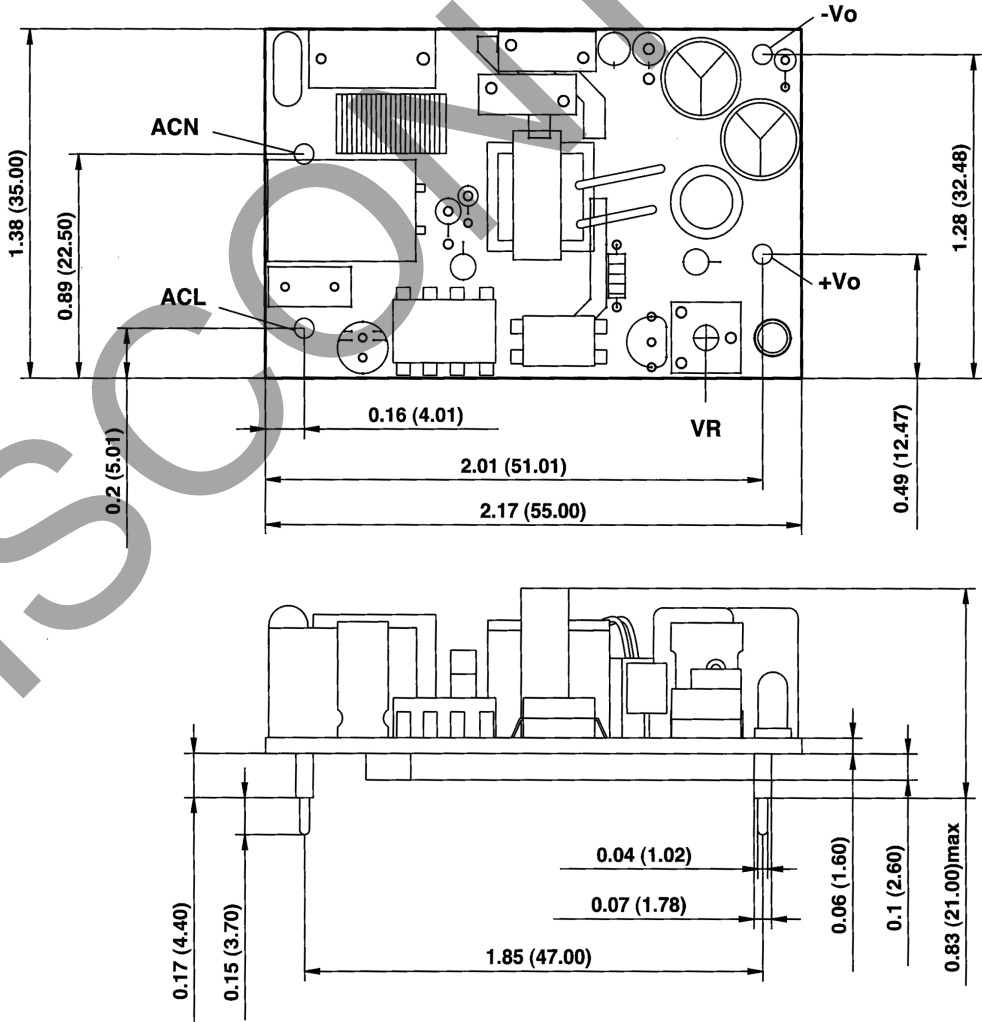


MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	2.165 x 1.378 x 0.861 (55.00 x 35.00 x 22.00 mm)				inch
cooling method	free air convection				

MECHANICAL DRAWING

units: inches (mm)



REVISION HISTORY

rev.	description	date
1.0	initial release	03/03/2006
1.01	mechanical drawing updates	12/27/2007
1.02	new template applied, V-Infinity branding removed	08/23/2012
1.03	updated features	11/05/2012
1.04	company logo updated	11/02/2020

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



CUI INC
a bel group

Headquarters
20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

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