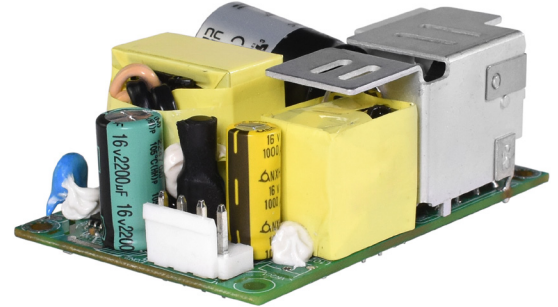


**SERIES:** VOF-150G | **DESCRIPTION:** AC-DC POWER SUPPLY

**FEATURES**

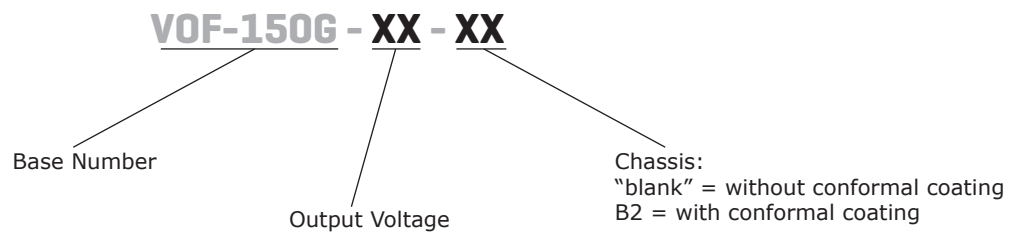
- 114/120 W with natural convection, 142/150 W with forced air cooling
- 3"x2" compact size, industrial design
- certified to IEC/EN/UL 62368-1
- designed to meet IEC/EN 60601-1
- 2 x MOPP (designed for ITE and medical)
- operating temperature -20°C ~ 85°C (with derating)
- short-circuit, over current, over voltage protection, & over temperature protection
- peak load 125% for 10 seconds
- MTBF >100,000 hours
- low no power consumption (<0.3W)
- chassis mounting



MODEL	output voltage	output current <sup>1</sup>	output power <sup>1,2</sup>	ripple and noise <sup>3</sup>	efficiency <sup>4</sup>
	typ (Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VOF-150G-12	12	11.83	142	100	89
VOF-150G-15	15	9.46	142	120	90
VOF-150G-24	24	6.25	150	150	91
VOF-150G-27	27	5.55	150	150	91
VOF-150G-36	36	4.16	150	200	91
VOF-150G-48	48	3.12	150	200	91

Notes: 1. With forced air (10 CFM).  
 2. For VOF-150G-12/15 the maximum output power of 142 W with 10 CFM forced air cooling, and 114 W with natural convection cooling.  
 For VOF-150G-24/27/36/48 models the maximum output power of 150 W with 10 CFM forced air cooling and 120 W with natural convection cooling.  
 3. Ripple is measured with 20 MHz bandwidth and 47 µF tantalum capacitor in parallel with a 0.1 µF capacitor at output connector.  
 4. At 230 Vac.

**PART NUMBER KEY**



## INPUT

parameter	conditions/description	min	typ	max	units
voltage		100		240	Vac
frequency		50		60	Hz
current		0.5		2.5	A
inrush current	at 230 Vac		60		A

## OUTPUT

parameter	conditions/description	min	typ	max	units
output power (natural convection/forced air <sup>6</sup> )	12 & 15 Vdc output models			114 / 142	W
	24, 27, 36 & 48 Vdc output models			120 / 150	W
output current (natural convection/forced air <sup>6</sup> )	12 Vdc output model			9.50 / 11.83	A
	15 Vdc output model			7.60 / 9.46	A
	24 Vdc output model			5.00 / 6.25	A
	27 Vdc output model			4.44 / 5.55	A
	36 Vdc output model			3.33 / 4.16	A
	48 Vdc output model			2.50 / 3.12	A
line regulation <sup>7</sup>			±0.5		%
load regulation			±1		%
start-up time				600	ms
hold-up time		15			ms

Note: 6. With forced air 10 CFM.

7. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.

## PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	output shutdown, latching				
over current protection	auto recovery				
short circuit protection	auto recovery				
over temperature protection	auto recovery				

## SAFETY & COMPLIANCE

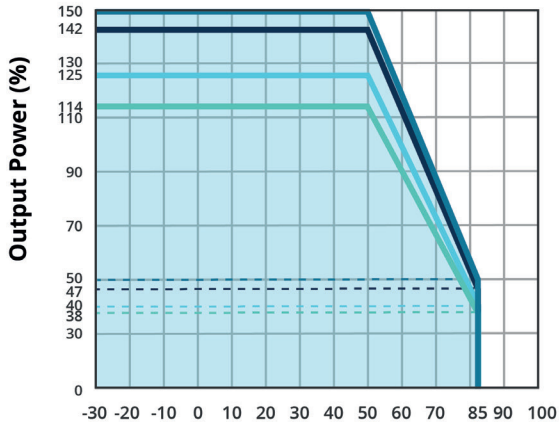
parameter	conditions/description	min	typ	max	units
safety approvals	certified to 62368-1: IEC, EN, UL designed to meet 60601-1: IEC, EN				
ESD	IEC61000-4-2 Contact: ±4 kV, Air: ±8 kV				
radiated emissions	IEC61000-4-3 Frequency: 80 ~ 1,000 MHz, Field Strength 3 V/M, 80% AM (1 kHz)				
surge	IEC61000-4-5 Line to Line: ±1 kV (peak)				
MTBF		100,000			hours
RoHS	yes				

## ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature	see derating curves	-20		50	°C
storage temperature		-20		85	°C
operating humidity	non-condensing	10		90	%
storage humidity	non-condensing	5		95	%

## DERATING CURVES

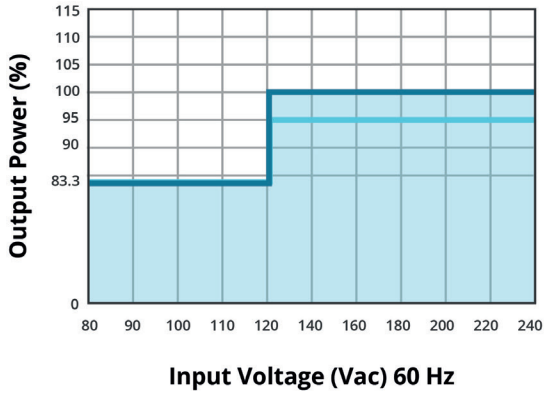
### TEMPERATURE DERATING CURVE



#### Key

	120~240 Vac with 10 CFM (24V, 27V, 36V, 48V)
	100~120 Vac with 10 CFM (12V, 15V)
	120~240 Vac with natural convection (24V, 27V, 36V, 48V)
	100~120 Vac with natural convection (12V, 15V)

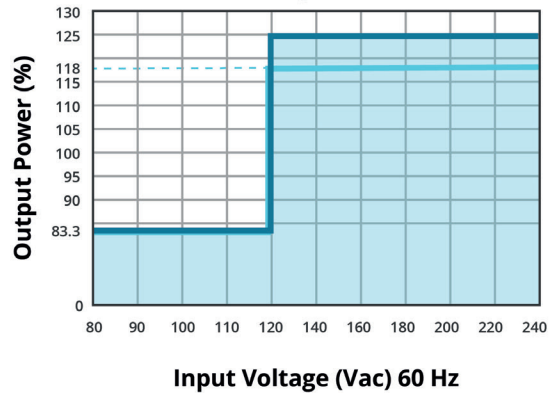
### INPUT VOLTAGE DERATING CURVE (natural convection)



#### Key

	$V_o < 24V$
	$V_o > 24V$

### INPUT VOLTAGE DERATING CURVE (10 CFM forced air)



#### Key

	$V_o < 24V$
	$V_o > 24V$

## MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	76.2 x 50.8 x 28.5				mm
weight			200		g
cooling	forced air cooling 10 CFM				

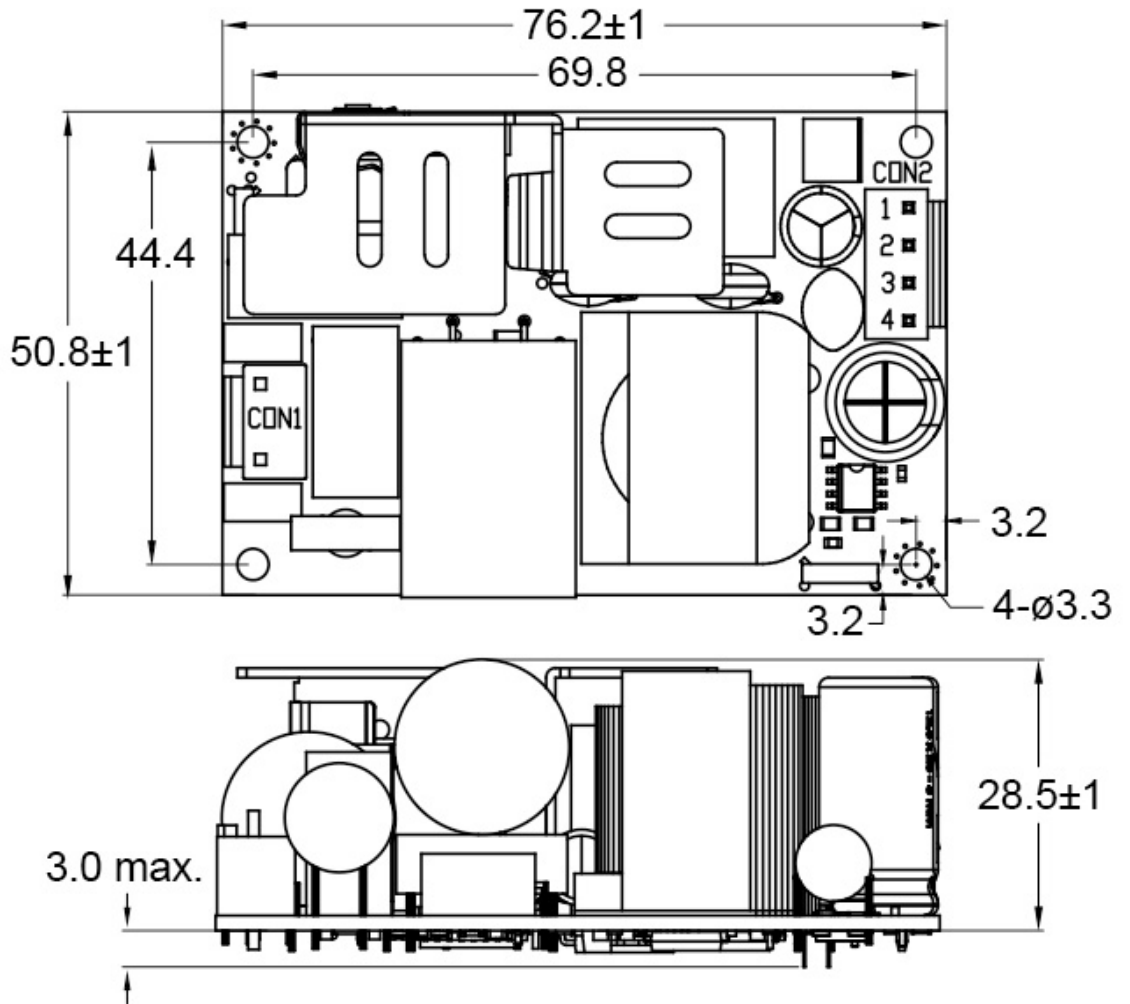
## MECHANICAL DRAWING

units: mm  
 general tolerance: ±1.00

AC Input Connector	
PIN	Function
1	AC (L)
2	NC
3	AC (N)

NC = no connection

DC Output Connector	
PIN	Function
1,2	+V
3,4	-V



CONNECTORS	
Function	Product Connector
AC connector	JST VHR Series or equivalent
DC connector	JST VHR Series or equivalent

## REVISION HISTORY

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rev.	description	date
1.0	initial release	04/10/2025

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



**CUI INC**

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**Headquarters**

15575 SW Sequoia Pkwy #100  
Portland, OR 97224  
**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.