

SERIES: VGSM-200G | DESCRIPTION: INTERNAL AC-DC POWER SUPPLY

FEATURES

- 140 W with natural convection, 200 W with forced air cooling
- -20°C to 70°C operating temperature, with derating
- universal 100 ~ 240 Vac input voltage
- power factor correction
- over voltage, short circuit, over current, over temperature protection
- certified to EN/UL 60601
- CE/FCC radiated and conducted Class B



MODEL	output voltage	output current max	output power ¹	ripple and noise ²	efficiency ³
	(Vdc)	(A)	max (W)	typ (mVp-p)	typ (%)
VGSM-200G-12	12	16.0	192	120	93
VGSM-200G-15	15	13.0	195	150	93
VGSM-200G-24	24	8.3	199	240	93
VGSM-200G-36	36	5.5	198	360	93
VGSM-200G-48	48	4.2	201	480	93

Notes: 1. Maximum output power of 200 W with 12 CFM forced air cooling, and 140 W with natural convection cooling at 50°C. See derating curve for more information.
2. Ripple & noise are measured at 20 MHz BW with 47 µF aluminum electrolytic capacitor and 0.1 µF ceramic capacitor on the output.
3. Measured at 230 Vac.

PART NUMBER KEY

VGSM-200G - XX

Base Number

Output Voltage

INPUT

parameter	conditions/description	min	typ	max	units
voltage	ac input	90	100~240	264	Vac
frequency		47	50~60	63	Hz
current		1.0		2.5	A
inrush current	at 230 Vac, cold start			100	A
leakage current	at 264 Vac/60 Hz			5	mA
no load power consumption	at 230 Vac			0.21	W
power factor		0.9			

OUTPUT

parameter	conditions/description	min	typ	max	units
load regulation			±5		%

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	latch off			150	%
over current protection				150	%
short circuit protection	auto-recovery				
over temperature protection	output shut-down				

SAFETY & COMPLIANCE

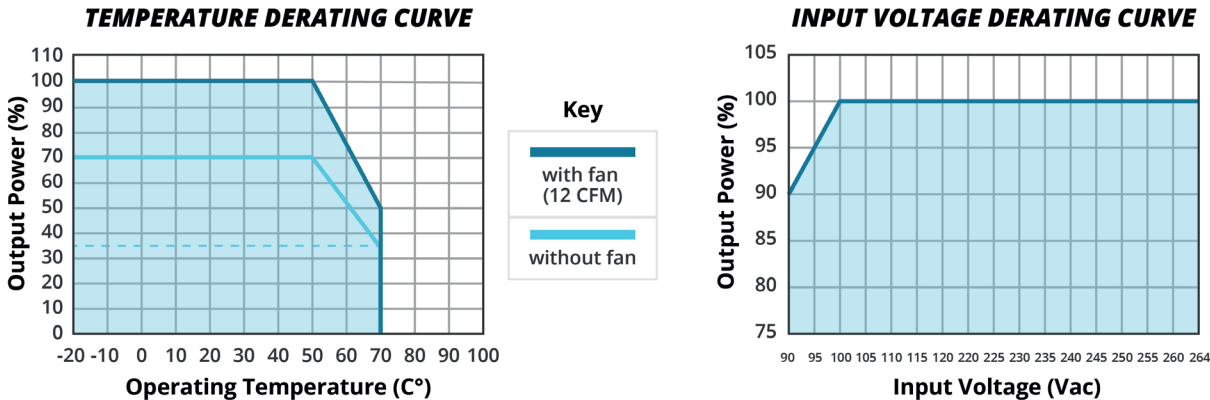
parameter	conditions/description	min	typ	max	units
isolation voltage ⁴	input to output for 1 minute, 10 mA max input to ground for 1 minute, 10 mA max	4,000 1,770			Vac Vac
safety class	class I				
safety approvals	certified to 60601: EN, UL				
EMI/EMC	CE / FCC Class B, conduction & radiation				
MTBF	as per Telcordia SR-322 at 25°C	300,000			hours
RoHS	yes				

Notes: 4. FG is isolated from secondary return.

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		-20		70	°C
storage temperature		-20		80	°C
operating humidity	non-condensing	20		80	%
storage humidity	non-condensing	10		90	%

DERATING CURVE



MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	103.4 x 62.0 x 42.9				mm
weight			306		g

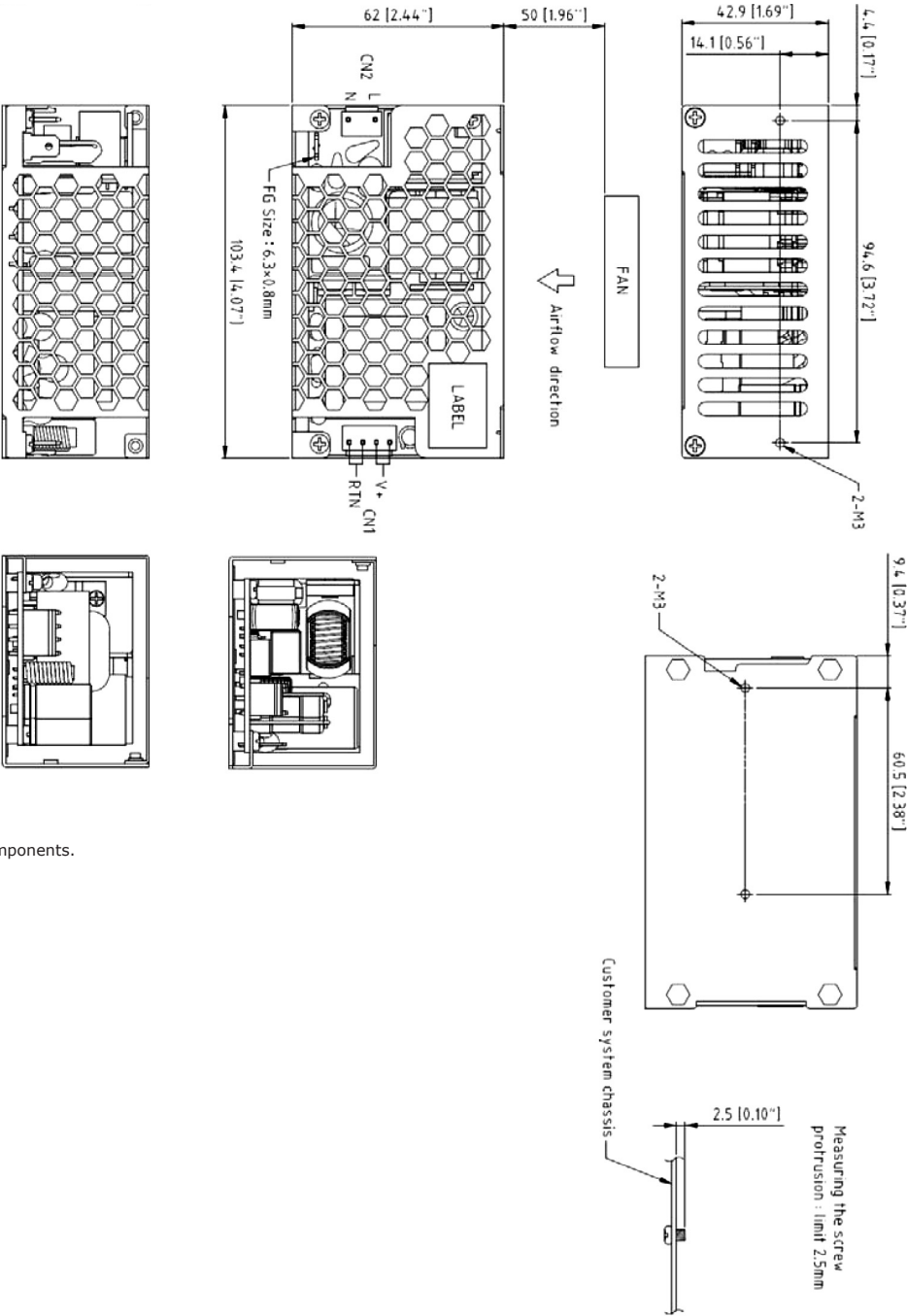
MECHANICAL DRAWING

units: mm [inch]
general tolerance: -1.0 / +3.0 mm

Input Connector CN2 (HOEDER: A3960WV-03P)	
PIN	Function
1	AC(N)
2	AC(L)

Output connector CN1 (HOWDER: A3960WV-04P)	
PIN	Function
1	+Vout
2	+Vout
3	RTN
4	RTN

Frame Ground (6.3 x 0.8 mm)	
PIN	Function
Tab	FG



Note: 5. Ensure adequate clearance for components.

REVISION HISTORY

rev.	description	date
1.0	initial release	10/28/2024
1.01	tolerance updated, assembly note added	06/17/2025

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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