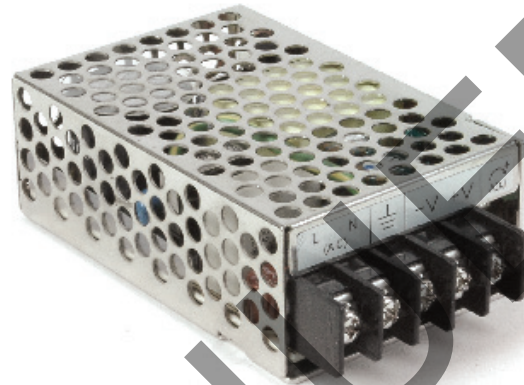


**SERIES:** VGS-25 | **DESCRIPTION:** AC-DC POWER SUPPLY

**FEATURES**

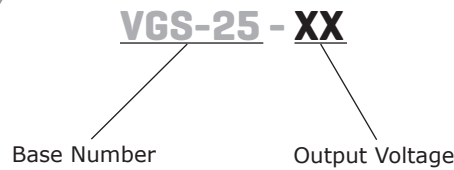
- up to 27 W continuous power
- compact footprint
- universal input (88~264 Vac / 125~373 Vdc)
- single output from 3.3~48 V
- over voltage, over load, and short circuit protections
- UL/cUL and TUV safety approvals
- long life electrolytic capacitors
- no load power consumption < 0.5 W
- efficiency 88%



MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise max (mVp-p)	efficiency (%)
VGS-25-3.3	3.3	6	19.8	100	74
VGS-25-5*	5	5	25	100	83
VGS-25-12	12	2.1	25.2	120	85
VGS-25-15	15	1.7	25.5	120	86
VGS-25-24	24	1.1	26.4	120	87
VGS-25-48	48	0.57	27.36	120	88

Notes: \* Discontinued model.

**PART NUMBER KEY**



**INPUT**

parameter	conditions/description	min	nom	max	units
voltage range		88		264	Vac
		125		373	Vdc
frequency range		50		60	Hz
current	at 115 Vac, cold start			0.7	A
	at 230 Vac, cold start			0.35	A
inrush current	at 230 Vac, full load, cold start			30	A

**OUTPUT**

parameter	conditions/description	min	nom	max	units
voltage adjust			±10		
voltage tolerance	3.3 V models		±3		%
	5 V models		±2		%
	all other models		±1		%
line regulation	low line to high line		±0.5		%
load regulation	3.3 V models		±2.0		%
	5 V models		±1.0		%
	all other models		±0.5		%
start-up time	at 115 Vac, cold start		1.0		s
	at 230 Vac, cold start		0.8		s
rise time	at 115 Vac, cold start		65		ms
	at 230 Vac, cold start		50		ms
hold-up time	at 115 Vac, cold start	10			ms
	at 230 Vac, cold start	32			ms

**PROTECTIONS**

parameter	conditions/description	min	nom	max	units
over load	Hiccup mode, auto recovery			110	%
over voltage	latch off mode	115		150	%
over-temperature		52			°C
short circuit	continuous				

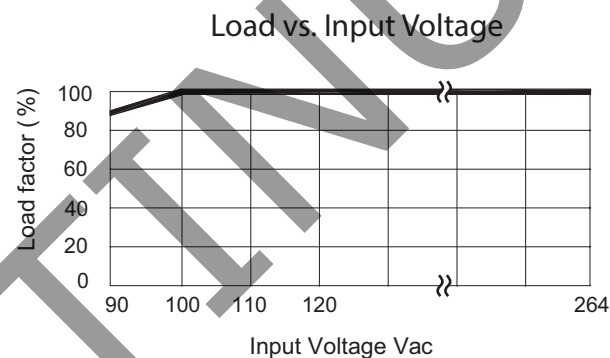
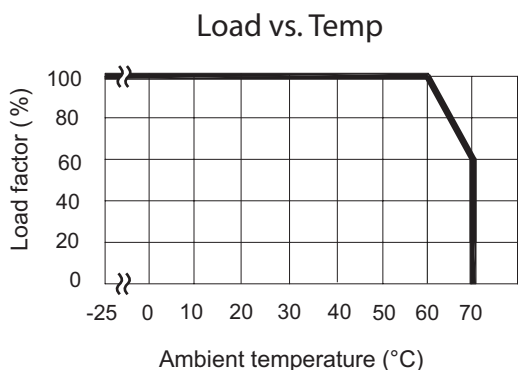
**SAFETY & COMPLIANCE**

parameter	conditions/description	min	nom	max	units
isolation voltage	input to output:	4,242			Vdc
	input to case:	2,121			Vdc
	output to case:	707			Vdc
isolation resistance	input to output at 500 V dc	100			MΩ
safety approvals	UL 60950-1 / TUV EN 60950-1				
EMI/EMC	EN 55022 : 1998+A1 : 2000+A2 : 2003 Class B, EN 61000-3-2 : 2000+A2 : 2005 Class A, EN 61000-3-3 : 1995+A1 : 2001, EN 61204-3 : 2000 EN 50204 1998+A1 : 2001+A2 : 2003 light industry level, criteria A				
leakage current	measured per IEC 60950-1, paragraph 5.1, test voltage of 240 Vac/60 Hz			2	mA
RoHS compliant	yes				
MTBF	at 230 Vac, MIL-HDBK-217F 25 °C ambient	620,300			hrs

## ENVIRONMENTAL

parameter	conditions/description	min	nom	max	units
operating temperature	see derating curve	-20		70	°C
storage temperature	see derating curve	-40		85	°C
temperature derating	linearly from 100% load at 50°C to 50% load at 70°C				
relative humidity	non-condensing operating	20		90	%
temperature coefficient	(0 ~ 50°C)		0.3		%/°C
vibration	(10 ~ 500 Hz, 1 hour per axis, 3 hours total)		5		Grms

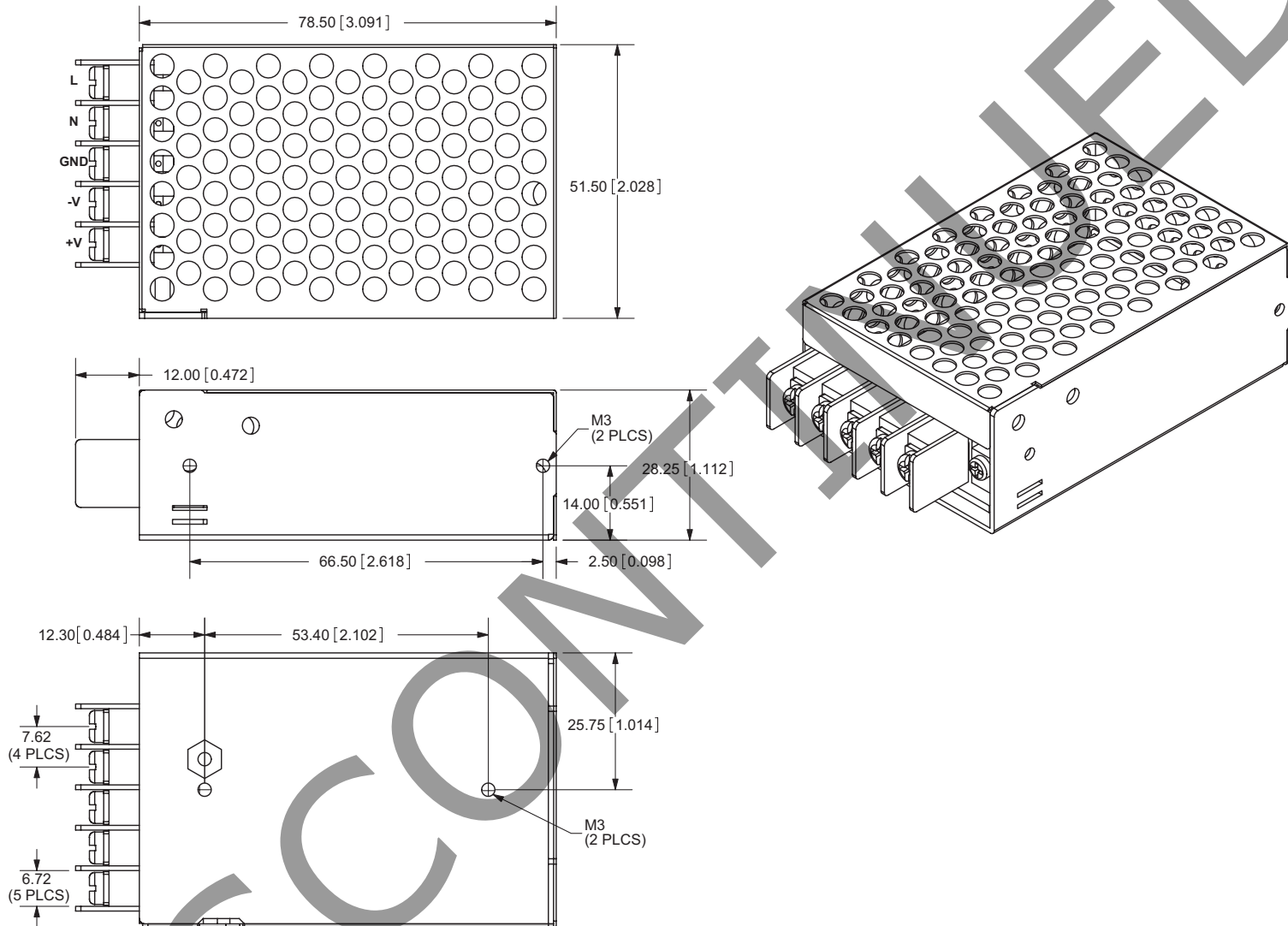
## DERATING CURVES



## MECHANICAL DRAWING

Note:  
tolerance:  $\pm 0.3\text{mm}$  unless otherwise specified

terminal block screws #6-32 (5 PLCS)



## REVISION HISTORY

rev.	description	date
1.0	initial release	07/21/2008
1.01	V-Infinity branding removed	08/21/2012
1.02	corrected output current values	02/14/2013
1.03	discontinued VGS-25-5 model	04/11/2017

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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