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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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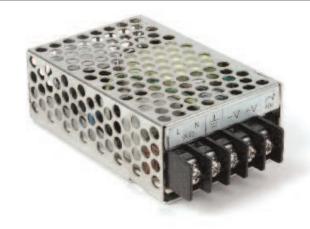
**date** 04/11/2017

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## 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%







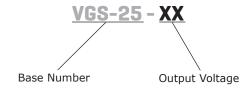




MODEL	output voltage	output current	output power	ripple and noise	efficiency
	(Vdc)	max (A)	max (W)	<b>max</b> (mVp-p)	(%)
VGS-25-3.3	3.3	6	19.8	100	74
VGS-25-5*	5	5	25	100	83
VGS-25-12	12	2.1	25.2	120	85
VGS-25-15	15	1.7	25.5	120	86
VGS-25-24	24	1.1	26.4	120	87
VGS-25-48	48	0.57	27.36	120	88

Notes:

#### **PART NUMBER KEY**



<sup>\*</sup> Discontinued model.

### **INPUT**

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

### **OUTPUT**

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

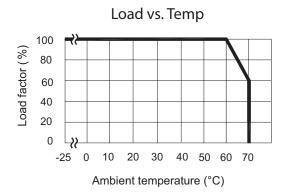
### **SAFETY & COMPLIANCE**

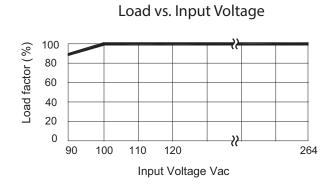
parameter	conditions/description	min	nom	max	units
	input to output:	4,242			Vdc
isolation voltage	input to case:	2,121			Vdc
	output to case:	707			Vdc
isolation resistance	input to output at 500 V dc	100			МΩ
safety approvals	UL 60950-1 / TUV EN 60950-1				
EMI/EMC	EN 55022 : 1998+A1 : 2000+A2 : 2003 Class 3-3 : 1995+A1 : 2001, EN 61204-3 : 2000 El 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**

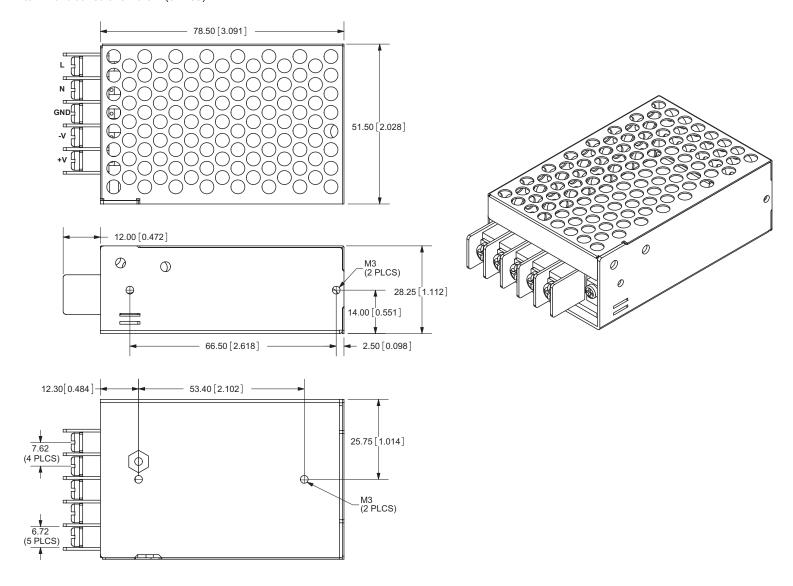




#### **MECHANICAL DRAWING**

tolerance: ±0.3mm 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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