

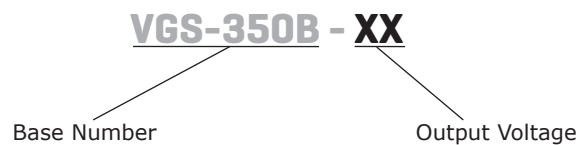
SERIES: VGS-350B | **DESCRIPTION:** AC-DC POWER SUPPLY**FEATURES**

- built-in cooling with temperature-controlled fan
- +70°C operation
- output trim
- current/voltage/temperature protections
- screw terminal interface
- switch-selectable AC input range
- low standby power consumption



MODEL	output voltage	output current	output power	ripple and noise ¹	efficiency ²
	(Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VGS-350B-12	12	29	348	150	85
VGS-350B-24	24	14.6	350.4	150	88
VGS-350B-30	30	11.6	348	200	88
VGS-350B-48	48	7.3	350.4	200	89

Notes: 1. 20 MHz bandwidth oscilloscope, 12" of twisted load cables paralleled with 0.1 μ F ceramic and 47 μ F electrolytic capacitors placed across the terminals at the load.
 2. At 230 Vac, 50 Hz, full load.
 3. All specifications are measured at $T_a=25^\circ\text{C}$, nominal input voltage, and rated output load unless otherwise specified.

PART NUMBER KEY

INPUT

parameter	conditions/description	min	typ	max	units
voltage	via input selector switch ¹	90 180	115 230	132 264	Vac Vac
frequency		47		63	Hz
current	at 115 Vac, full load at 230 Vac, full load			6.5 4	A A
inrush current	at 230 Vac, cold start, full load			60	A
leakage current	at 240 Vac			2	mA
no load power consumption	at 230 Vac			0.75	W

Notes: 1. Input selector must be set to match input voltage or damage could occur.

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation				±0.5	%
load regulation	12 Vdc output model all other models			±1 ±0.5	% %
adjustability	built in trim pot		±10		%
start-up time	at 115/230 Vac, full load			1.5	s
rise time	at 115/230 Vac, full load			30	ms
hold-up time	at 115 Vac, full load at 230 Vac, full load	12 16			ms ms
switching frequency			65		kHz

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	output shutdown, auto recovery	115		150	%
over current protection	output shutdown, auto recovery	105		150	%
short circuit protection	output shutdown, auto recovery				
over temperature protection	output shutdown, auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output for 1 minute, 10 mA input to ground for 1 minute, 10 mA output to ground for 1 minute, 10 mA		1,500 1,500 500		Vac Vac Vac
isolation resistance	input to output at 500 Vdc input to ground at 500 Vdc output to ground 500 Vdc	100 100 100			MΩ MΩ MΩ
safety approvals	certified to 62368: EN certified to 60950: IEC/UL				
safety class	class I				
conducted emissions	EN 55032:2015, Class A				
radiated emissions	EN 55032:2015, Class A				
voltage fluctuation and flicker	EN 61000-3-3:2013, Class A				
ESD immunity	IEC 61000-4-2, air: ±8 kV; contact: ±4 kV, Class A				
radiated field immunity	IEC 61000-4-3, 3 V/m, Class A				
electrical fast transient immunity	IEC 61000-4-4, Ac power port: 1 kV; signal & telecommunication ports: 0.5 kV, Class B				

Notes: 2. The power supply is considered a component which will be installed into final equipment. The final equipment still must be tested to meet the necessary EMC directives.

SAFETY & COMPLIANCE (CONTINUED)

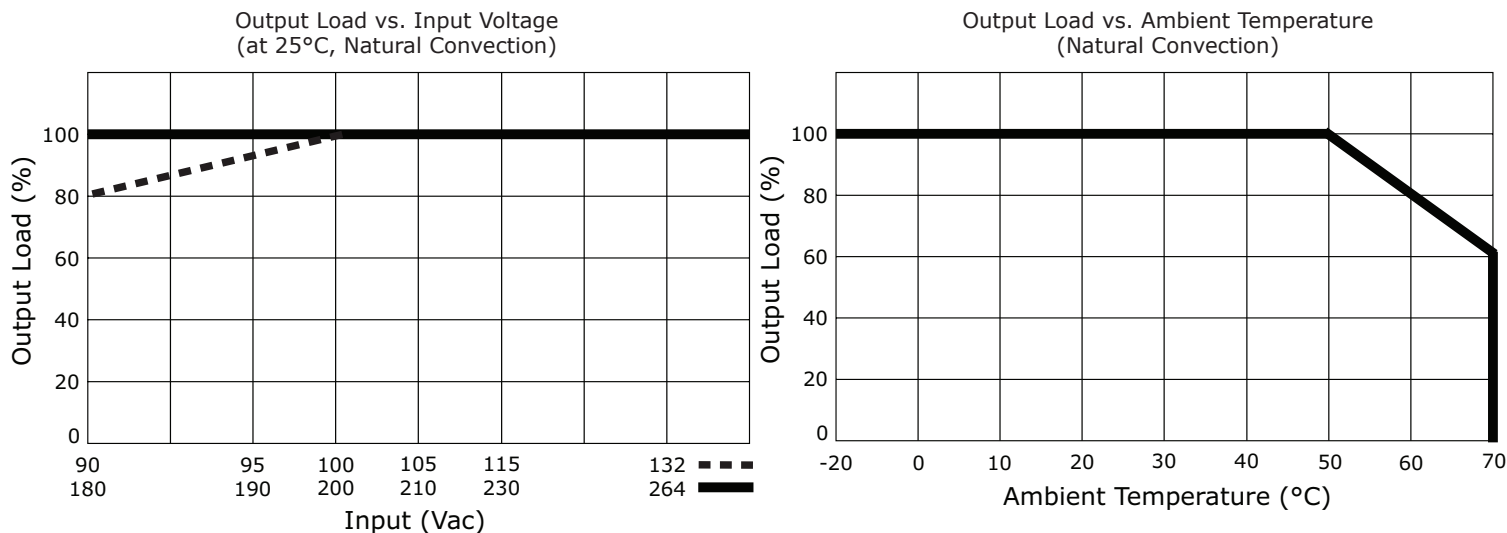
parameter	conditions/description	min	typ	max	units
surge immunity	IEC 61000-4-5, input L to input N: 1 kV; input L to FG: 2 kV; input N to FG: 2 kV, Class C				
conducted immunity	IEC 61000-4-6, frequency range: 0.15~80 MHz; field strength: 3 Vms, Class A				
magnetic field immunity	IEC 61000-4-8, 1 A/m, Class A				
voltage dips, interruptions	IEC 61000-4-11: voltage dips >95% reduction, 0.5 period, Class A voltage dips 30% reduction, 25 period, Class B voltage dips >95% reduction, 250 period, Class C				
MTBF	as per MIL-HDBK-217F, 25°C		200,000		hours
RoHS	yes				

Notes: 1. The power supply is considered a component which will be installed into final equipment. The final equipment still must be tested to meet the necessary EMC directives.

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature	see derating curves	-20		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	20		90	%
storage humidity	non-condensing	10		95	%

DERATING CURVES



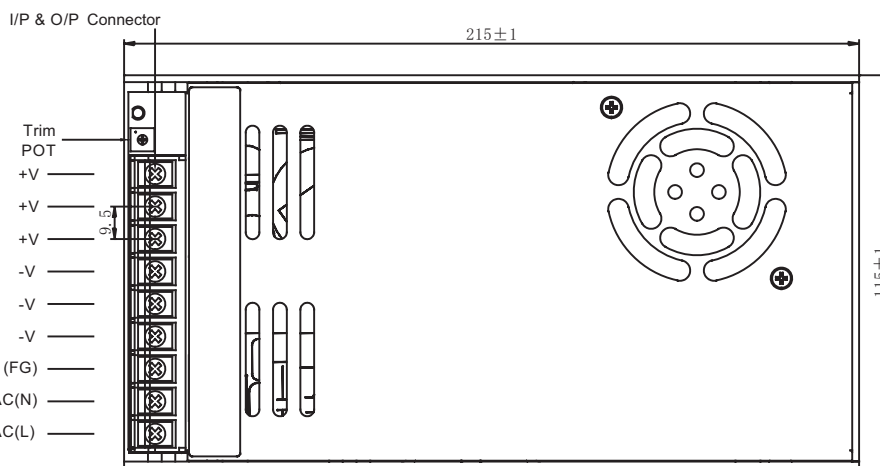
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	215 x 115 x 30				mm
weight			1000		g
cooling	cooling fan				
input/output connector	screw terminals accept 22~12 AWG wire, 1.2 N-m torque				

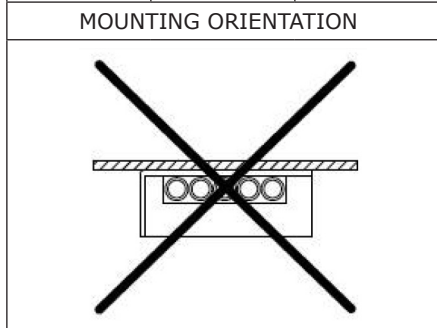
MECHANICAL DRAWING

units: mm
tolerance: ±0.3 mm

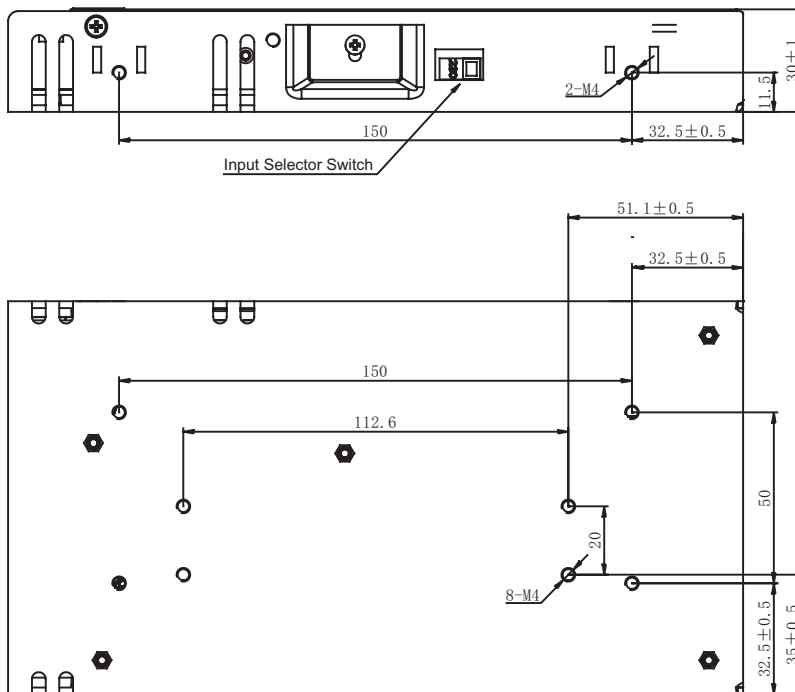
Input/Output Connector	
PIN	Function
1	+V
2	+V
3	+V
4	-V
5	-V
6	-V
7	FG
8	AC(N)
9	AC(L)



MOUNTING SCREWS		
Screw Size	Max Depth	Torque
M3X0.5	4 mm	<0.75 N-m
M4X0.7	4 mm	<0.8 N-m



Note: 1. Parts should not be mounted in an upside down orientation.



REVISION HISTORY

rev.	description	date
1.0	initial release	06/20/2018
1.01	updated terminal function detail	06/14/2019
1.02	company logo updated	12/22/2020
1.03	safeties updated	01/25/2021

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



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