

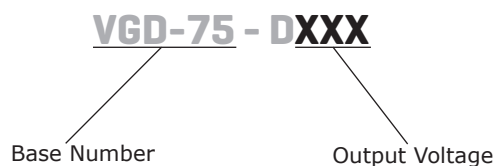
SERIES: VGD-75 | **DESCRIPTION:** AC-DC POWER SUPPLY**FEATURES**

- universal input voltage range (90~264 Vac)
- provides dual outputs; independently isolated
- short circuit, over current and over voltage protections
- safety certified: IEC/EN/UL 62368
- designed to meet: IEC/EN/UL 60335
- class B EMI performance, meets CISPR32 / EN 55032



MODEL	output voltage (Vdc)	output current		output power ¹ max (W)	ripple and noise ² max (mVp-p)	efficiency typ (%)
		min (A)	max (A)			
VGD-75-D512	5	0.7	7	71	80	82
	12	0.3	3		120	
VGD-75-D524	5	0.5	5	73	80	84
	24	0.2	2		150	

Notes: 1. Maximum total combined power.
 2. Ripple & noise are measured at 20 MHz BW with 47 μ F aluminum electrolytic capacitor and 0.1 μ F ceramic capacitor on the output.

PART NUMBER KEY

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
		120		373	Vdc
frequency		47		63	Hz
input current	115 Vac			1.7	A
	230 Vac			0.9	A
inrush current	115 Vac, full load, cold start		30		A
	230 Vac, full load, cold start		45		A

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation	Vo1, full load		±0.5	±1.0	%
	Vo2, full load		±1.5		%
load regulation	Vo1, 10 ~ 100% (balanced load)		±0.5		%
	Vo2, 10 ~ 100% (balanced load)		±5.0		%
temperature coefficient			±0.03		%/°C
hold-up time	115 Vac, full load	5			ms
	230 Vac, full load	30			ms
adjustability	adjustable with built-in trim pot ¹	4.75		5.5	V
output voltage accuracy	Vo1, full load range		±2.0		%
	Vo2, full load range		±8.0		%

Note: 1. Adjustment of 5 V output only.

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	hiccup mode	5.75		6.75	V
overload protection	hiccup mode, automatically recovers	110			%
short circuit protection	hiccup, continuous, self-recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output		3,000		Vac
	input to ground		2,000		Vac
	output to ground		500		Vac
	output Vo1 - output Vo2		500		Vdc
isolation resistance	input to output at 500 Vdc @ 25°C	100			MΩ
safety approvals	IEC/EN/UL62368 designed to meet EN60335				
safety class	Class I				
conducted emissions	CISPR32/ EN55032 Class B				
radiated emissions	CISPR32/ EN55032 Class B				
ESD	IEC/EN61000-4-2, Contact ±6KV / Air ±8KV, perf. Criteria A				
radiated immunity	IEC/EN61000-4-3, 10V/m, perf. Criteria A				
EFT/burst	IEC/EN61000-4-4, ±2KV, perf. Criteria A				
surge	IEC/EN 61000-4-5, Line to Line ±2KV / Line to Ground±4KV, perf. Criteria A				
conducted immunity	IEC/EN61000-4-6, 10 Vrms, perf. Criteria A				

SAFETY & COMPLIANCE (CONTINUED)

parameter	conditions/description	min	typ	max	units
power-frequency magnetic fields immunity	EN 61000-4-8				
voltage dips & interruptions	IEC/EN61000-4-11, 0%,70%, perf. Criteria B				
MTBF	MIL-HDBK-217F at 25°C	300,000			hrs
RoHS	yes				

ENVIRONMENTAL

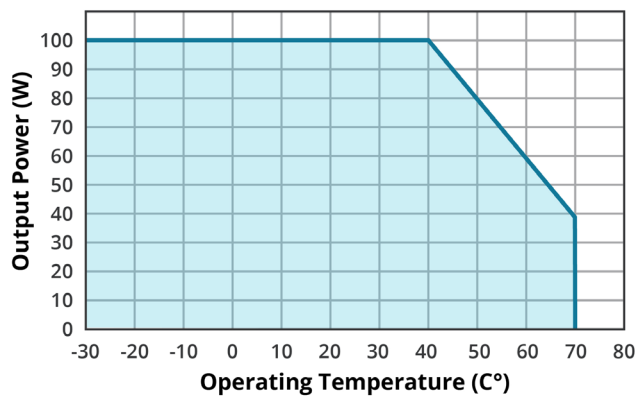
parameter	conditions/description	min	typ	max	units
operating temperature	see derating curve	-30		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing			95	%
storage humidity	non-condensing			95	%

MECHANICAL

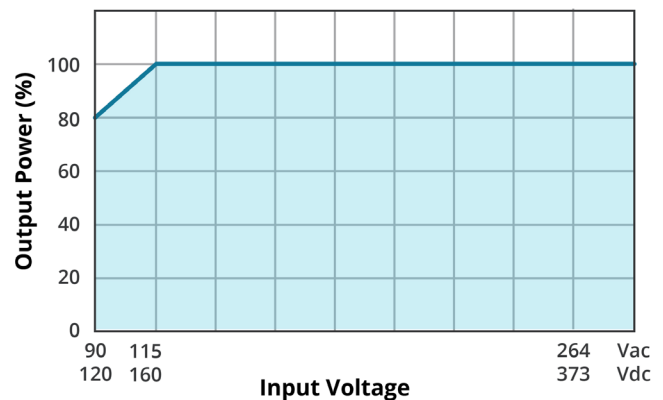
parameter	conditions/description	min	typ	max	units
dimensions	129 x 97 x 30 (5.1 x 3.8 x 1.2 inch)				mm
cooling method	free air convection (see derating curve below)				
weight			310		g

DERATING CURVES

TEMPERATURE DERATING CURVE

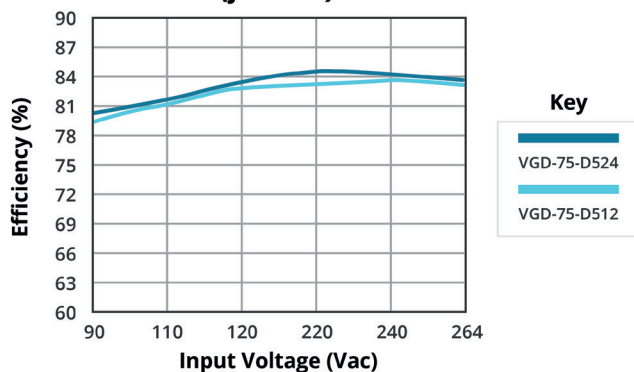


INPUT VOLTAGE DERATING CURVE

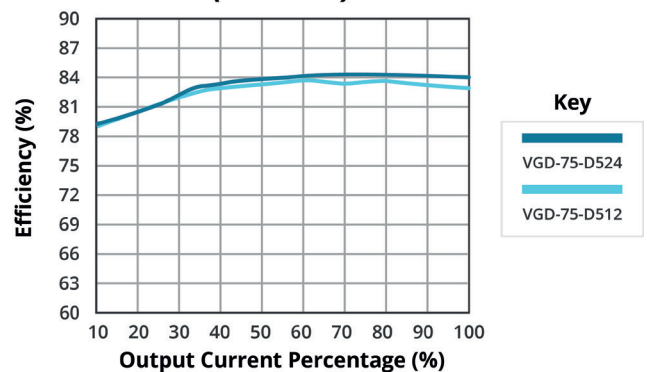


EFFICIENCY CURVES

EFFICIENCY VS INPUT LOAD (full load)



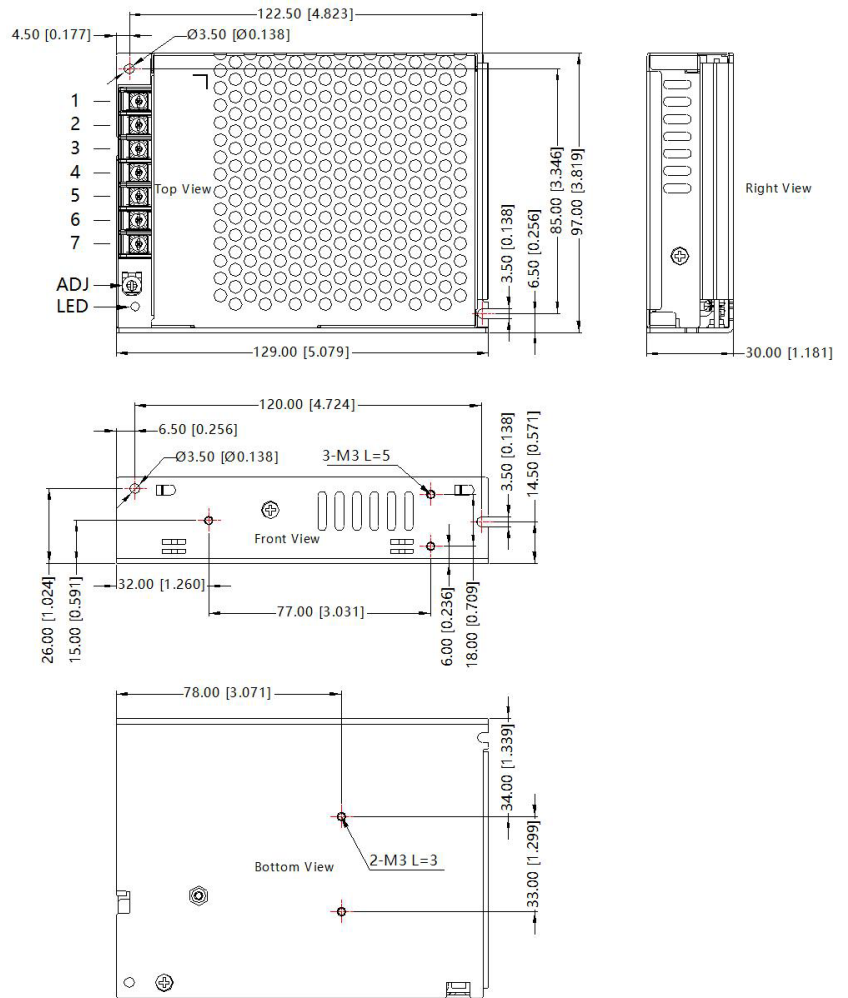
EFFICIENCY VS OUTPUT LOAD (at 230 Vac)



MECHANICAL DRAWING

units: mm [inches]
 wire range: 22 - 14 AWG
 tightening torque: M3, 0.5 N.m
 tolerance: ± 1.0 mm unless otherwise specified

PIN CONNECTIONS	
Pin	Function
1	AC(L)
2	AC(N)
3	\perp
4	-Vo2
5	+Vo2
6	-Vo1
7	+Vo1



REVISION HISTORY

rev.	description	date
1.0	initial release	11/08/2019
1.01	company logo updated	12/22/2020
1.02	derating and efficiency curves updated	06/10/2021

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



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