



**INPUT**

parameter	conditions/description	min	typ	max	units
voltage	ac input	85		264	Vac
	dc input	120		370	Vdc
frequency		47		63	Hz
current	at 115 Vac			1.0	A
	at 230 Vac			0.6	A
inrush current	at 115 Vac, cold start		20		A
	at 230 Vac, cold start		35		A
leakage current	at 240 Vac			2	mA
power factor	at 115 Vac	0.98			
	at 230 Vac	0.93			

**OUTPUT**

parameter	conditions/description	min	typ	max	units
capacitive load	5 Vdc output			10,000	μF
	12 Vdc output			6,000	μF
	15 Vdc output			5,000	μF
	24 Vdc output			1,500	μF
	48 Vdc output			680	μF
initial set point accuracy	at full load		±2		%
line regulation			±0.5		%
load regulation	5 Vdc output 0%~100% load		±1		%
	other outputs 0%~100% load		±0.5		%
hold-up time	at 230 Vac	16			ms
temperature coefficient			±0.03		%/°C
remote on/off (CTRL)	module on (0 ~ 0.8 Vdc) module off (4 ~ 10 Vdc)				

**PROTECTIONS**

parameter	conditions/description	min	typ	max	units
over voltage protection	5 Vdc output model, output shut down, latched			7.0	Vdc
	12 Vdc output model, output shut down, latched			20.0	Vdc
	15 Vdc output model, output shut down, latched			25.0	Vdc
	24 Vdc output model, output shut down, latched			32.4	Vdc
	48 Vdc output model, output shut down, latched			60.0	Vdc
over current protection	auto-recovery	105			%
over temperature protection <sup>1</sup>	over temperature protection activation			85	°C
	over temperature protection deactivation	50			°C
short circuit protection	constant current, continuous, auto-recovery				

Note: 1. Over temperature protection thresholds under full load conditions.

**SAFETY & COMPLIANCE**

parameter	conditions/description	min	typ	max	units
isolation voltage	input to ground, 1 min, <10mA	2,000			Vac
	input to output, 1 min, <10mA	4,000			Vac
	output to ground, 1 min, <5mA	500			Vac
safety approvals	certified to	62368: IEC, EN, UL/cUL			
	designed to meet	60335: EN			
	designed to meet	61558: EN			
	designed to meet	GB4943			
safety class	Class I				
conducted emissions	CISPR32/EN55032 CLASS B				
radiated emissions	CISPR32/EN55032 CLASS B				
harmonic current	IEC/EN61000-3-2 CLASS A				
ESD	IEC/EN61000-4-2 Contact ±6KV/Air ±8KV perf. Criteria B				
radiated immunity	IEC/EN61000-4-3 10V/m perf. Criteria A				
EFT/burst	IEC/EN61000-4-4 ±2KV perf. Criteria B				
surge	IEC/EN61000-4-5 line to line ±1KV/line to ground ±2KV perf. Criteria B				
conducted immunity	IEC/EN61000-4-6 10Vr.m.s perf. Criteria A				
voltage dips and interruptions	IEC/EN61000-4-11 0%, 70% perf. Criteria B				
MTBF	as per MIL-HDBK-217F at 25°C	300,000			hours
RoHS	yes				

**ENVIRONMENTAL**


parameter	conditions/description	min	typ	max	units
operating temperature	5 Vdc output model, see derating curve	-25		60	°C
	other output models, see derating curve	-25		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	20		90	%
storage humidity	non-condensing	0		95	%

## MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	159 x 97 x 30				mm
weight			380		g
cooling	natural convection				
case material	metal (AL1100, SGCC)				

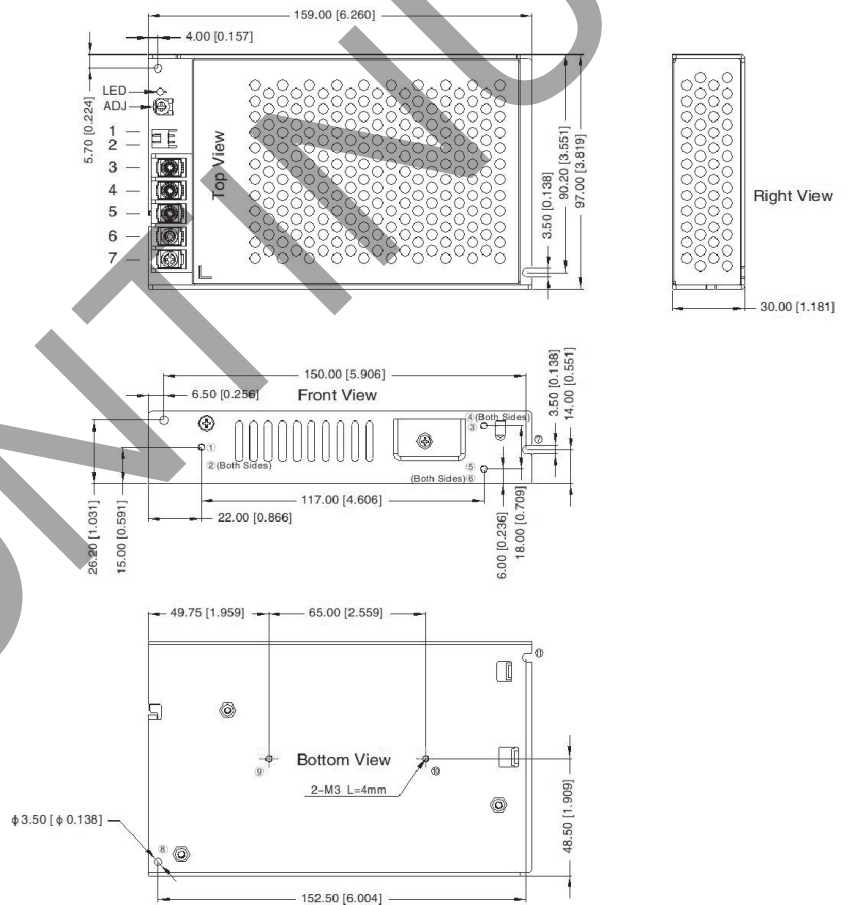
## MECHANICAL DRAWING

units: mm [inch]  
 tolerance:  $\pm 1.0$  [ $\pm 0.039$ ]  
 wire range: 22-12 AWG  
 connector tightening torque: M3.5, 0.8 N·m

PIN CONNECTIONS	
PIN	Function
1	RC+
2	RC-
3	+Vo
4	-Vo
5	
6	AC(N)
7	AC(L)

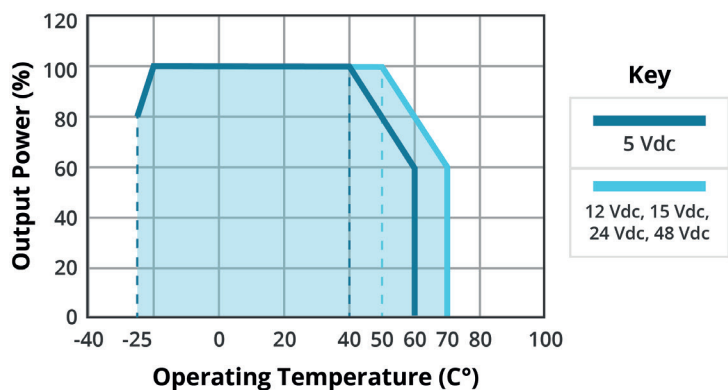
Note: At least one hole position, ①~③, must be securely connected to Protective Earth (PE). ④

CN1: KANGDAO TJC3-NAWD-2P			
PIN	FUNCTION	CONNECTOR	TERMINAL
1	RC+	KANGDAO XI-25001-2Y	KANGDAO XH2.54-TE
2	RC-		

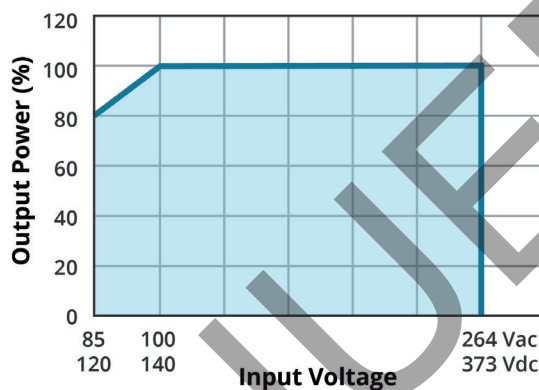


## DERATING CURVE

### TEMPERATURE DERATING CURVE

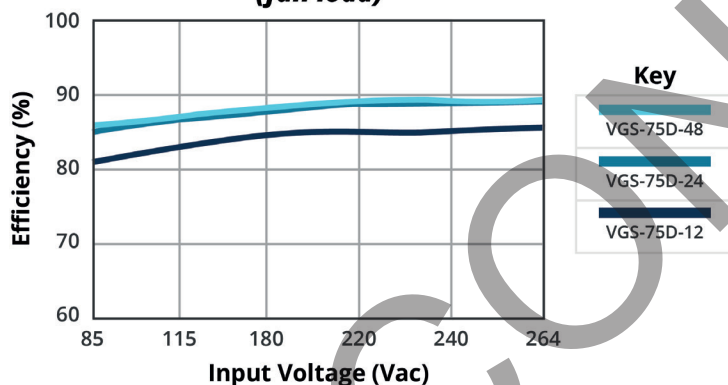


### INPUT VOLTAGE DERATING CURVE (25°C)

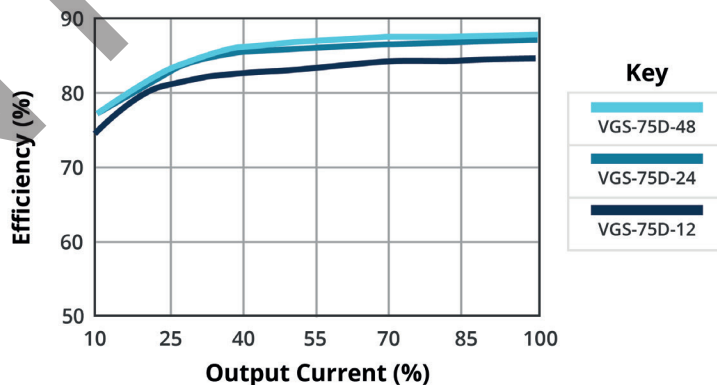


## EFFICIENCY CURVES

### EFFICIENCY VS INPUT VOLTAGE (full load)



### EFFICIENCY VS OUTPUT LOAD



## REVISION HISTORY

rev.	description	date
1.0	initial release	12/09/2020
1.01	derating and efficiency curves updated	02/09/2022
1.02	UKCA mark added	06/10/2022
1.03	discontinued model VGS-75D-5-A	02/06/2023

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



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