



## INPUT

parameter	conditions/description	min	typ	max	units
voltage	ac input	85		305	Vac
	dc input	120		431	Vdc
frequency		47		63	Hz
current	at 115 Vac			4	A
	at 230 Vac			2	A
inrush current	at 115 Vac		30		A
	at 230 Vac		60		A
leakage current	at 277 Vac			0.75	mA
no load power consumption	at 250 Vac			0.5	W

## OUTPUT

parameter	conditions/description	min	typ	max	units
capacitive load	12 Vdc output			10,000	μF
	15 Vdc output			6,000	μF
	24 Vdc output			2,400	μF
	36 Vdc output			1,200	μF
	48 Vdc output			600	μF
initial set point accuracy	at full load		±1		%
line regulation	at rated load		±0.5		%
load regulation	0% ~ 100% load		±0.5		%
hold-up time	at 115 Vac	8			ms
	at 230 Vac	40			ms
switching frequency			65		kHz
temperature coefficient			±0.03		%/°C
adjustability	built in trim pot		±10		%

## PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	12 Vdc output, hiccup			16.2	Vdc
	15 Vdc output, hiccup			21.75	Vdc
	24 Vdc output, hiccup			33.6	Vdc
	36 Vdc output, hiccup			48.6	Vdc
	48 Vdc output, hiccup			60	Vdc
over current protection	auto recovery	110		150	%
short circuit protection	hiccup, continuous, auto recovery				
over-temperature protection	shut-down, auto recovery				°C

## 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. <10mA	1,250			Vac
safety approvals	certified to	62368:	IEC, EN, UL		
	designed to meet	60335:	IEC, EN		
	designed to meet	61558:	IEC, EN		
safety class	class I				
EMI/EMC	CISPR 32/EN 55032 Class B, IEC 61000-3-2 Class A (≤80% load)				
ESD	IEC/EN 61000-4-2 Contact ±6KV/Air ±8KV perf. criteria A				
radiated immunity	IEC/EN 61000-4-3 10 V/m perf. criteria A				
EFT/burst	IEC/EN 61000-4-4 ±4KV perf. criteria A				
surge	IEC/EN 61000-4-5 line to line ±2KV/line to ground ±4KV perf. criteria A				

## SAFETY & COMPLIANCE

conducted immunity	IEC/EN 61000-4-6 10 Vr.m.s perf. criteria A		
voltage dips and interruption	IEC/EN 61000-4-11 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		-30		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	20		90	%
storage humidity	non-condensing	10		95	%

## MECHANICAL

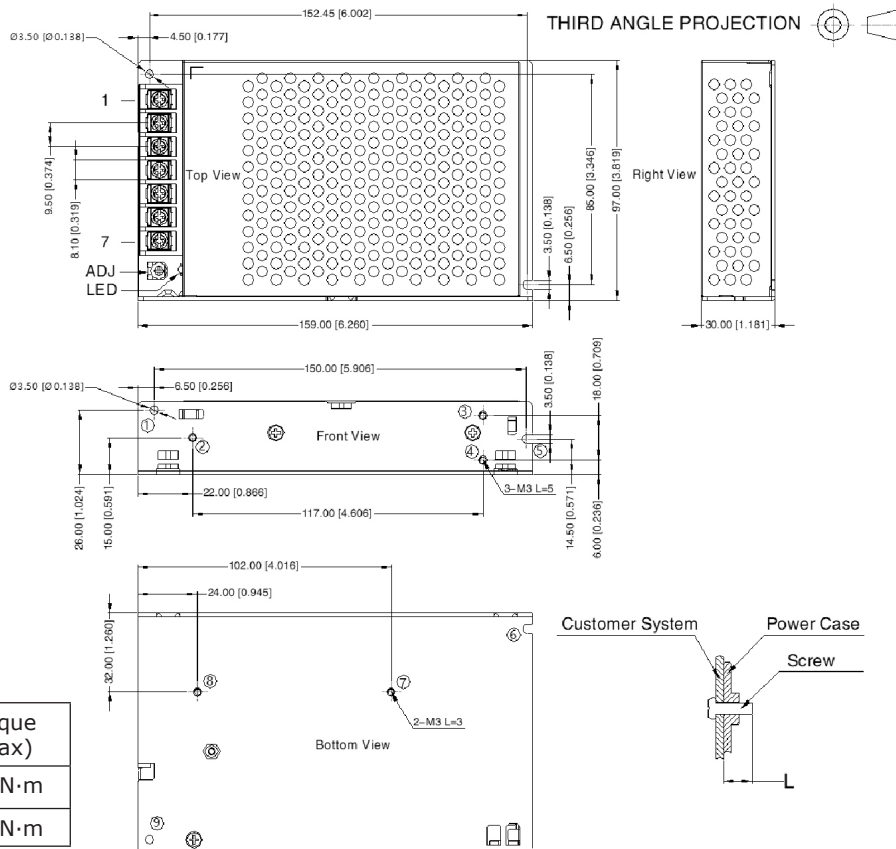
parameter	conditions/description	min	typ	max	units
dimensions	159.00 x 97.00 x 30.00 mm				inch
weight	12V, 15V models 24V, 36V, 48V models		430 410		g
cooling	free air convection				
case material	metal (AL1100, SGCC)				

## MECHANICAL DRAWING

units: mm  
tolerance: ±1 [±0.039]

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

wire range: 22-12 AWG  
connector tightening torque: M3.5, 0.8N·m

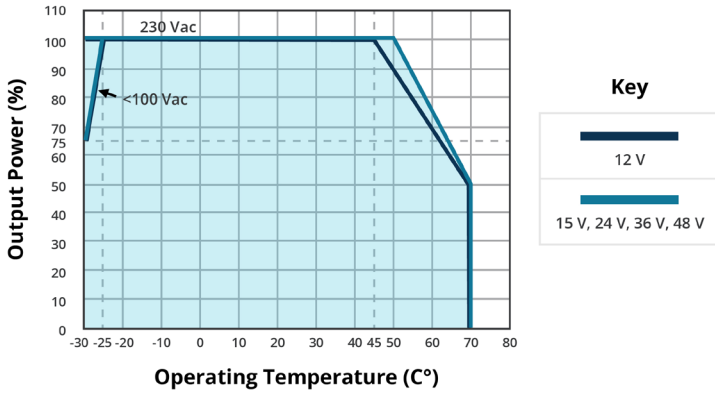


Position	Screw spec.	L (max)	Torque (max)
② - ④	M3	5 mm	0.4 N·m
⑦ - ⑧	M3	3 mm	0.4 N·m

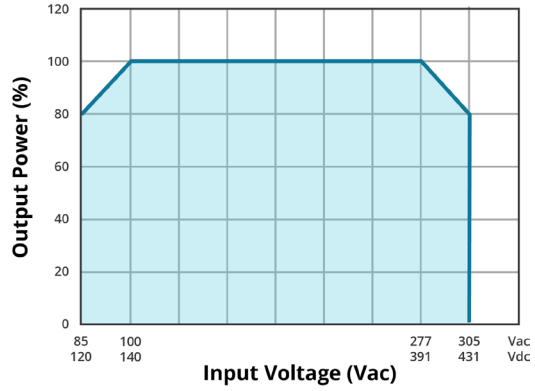
Note: At least one hole position, ①~④ must be securely connected to Protective Earth (PE) ⊕

## DERATING CURVE

**TEMPERATURE DERATING CURVE**

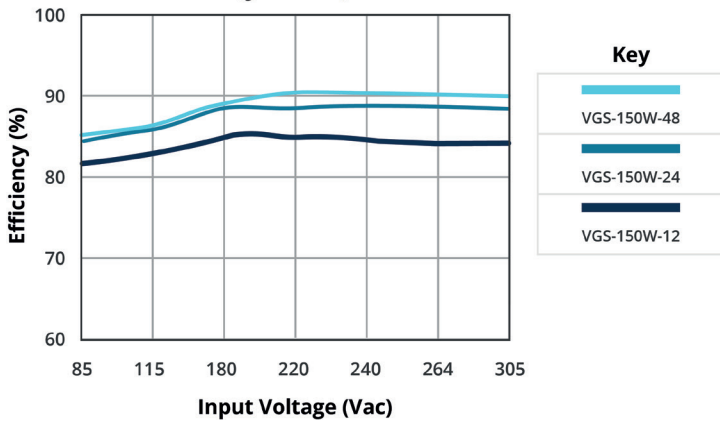


**INPUT VOLTAGE DERATING CURVE (25 °C)**

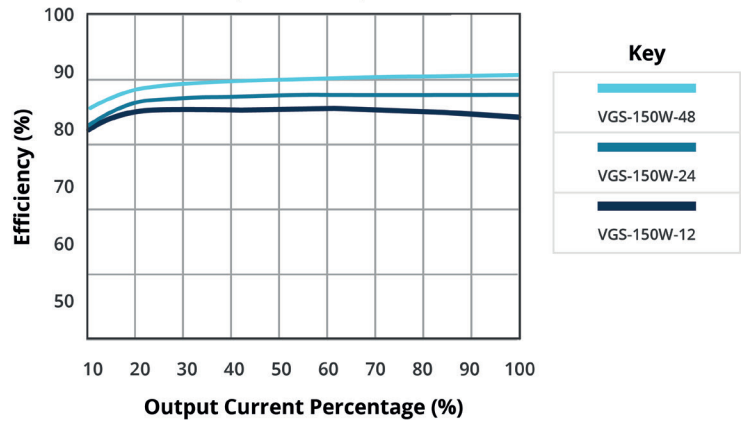


## EFFICIENCY CURVES

**EFFICIENCY VS INPUT LOAD (full load)**



**EFFICIENCY VS OUTPUT LOAD (at 230 Vac)**



## REVISION HISTORY

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rev.	description	date
1.0	initial release	09/02/2020
1.01	derating and efficiency curves updated	06/14/2021
1.02	screw length table updated	12/09/2021
1.03	UKCA mark added	06/13/2022
1.04	derating curve updated	09/04/2022
1.05	features updated	01/09/2024

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



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