



## INPUT

parameter	conditions/description	min	typ	max	units
voltage	ac input	85		305	Vac
	dc input	120		430	Vdc
frequency		47		63	Hz
current	at 115 Vac			0.8	A
	at 230 Vac			0.6	A
inrush current	at 115 Vac, cold start		30		A
	at 230 Vac, cold start		50		A
leakage current				0.75	mA
no load power consumption				0.3	W

## OUTPUT

parameter	conditions/description	min	typ	max	units
capacitive load	5 Vdc output			8,000	μF
	12 Vdc output			1,500	μF
	15 Vdc output			1,000	μF
	24 Vdc output			750	μF
initial set point accuracy	5 Vdc output, full load		±2		%
	other outputs, full load		±1		%
line regulation	rated load		±0.5		%
load regulation	0% ~ 100% 5 Vdc output		±1		%
	0% ~ 100% other outputs		±0.5		%
hold-up time	at 115 Vac	8			ms
	at 230 Vac	30			ms
switching frequency			65		kHz
adjustability	built in trim pot		±10		%
temperature coefficient			±0.03		%/°C

## PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	5 Vdc output, hiccup, auto recovery			6.3	Vdc
	12 Vdc output, hiccup, auto recovery			16.2	Vdc
	15 Vdc output, hiccup, auto recovery			21.75	Vdc
	24 Vdc output, hiccup, auto recovery			33.6	Vdc
over current protection	at 230 Vac, auto recovery	110		200	%
short circuit protection	hiccup, continuous, auto recovery				

## 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/EN 61000-3-2 class A				
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 ±2KV perf. criteria A				
surge	IEC/EN 61000-4-5 line to line ±2KV/line to ground ±4KV perf. criteria A				
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				

## SAFETY & COMPLIANCE

MTBF	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			95	%

## MECHANICAL

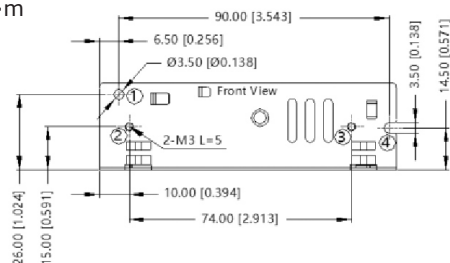
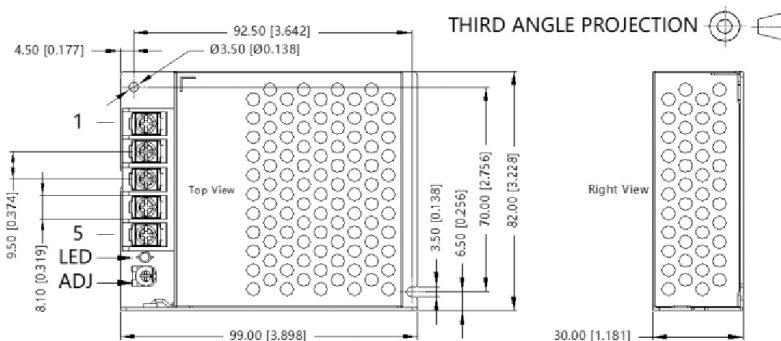
parameter	conditions/description	min	typ	max	units
dimensions	99.00 x 82.00 x 30.00 mm				inch
weight			170		g
cooling	free air convection				
case material	Metal (AL1100, SGCC)				

## MECHANICAL DRAWING

units: mm  
tolerance: ±1 [±0.039]

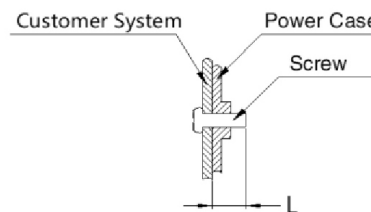
PIN CONNECTIONS	
PIN	Function
1	AC(L)
2	AC(N)
3	⊕
4	-Vo
5	+Vo

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



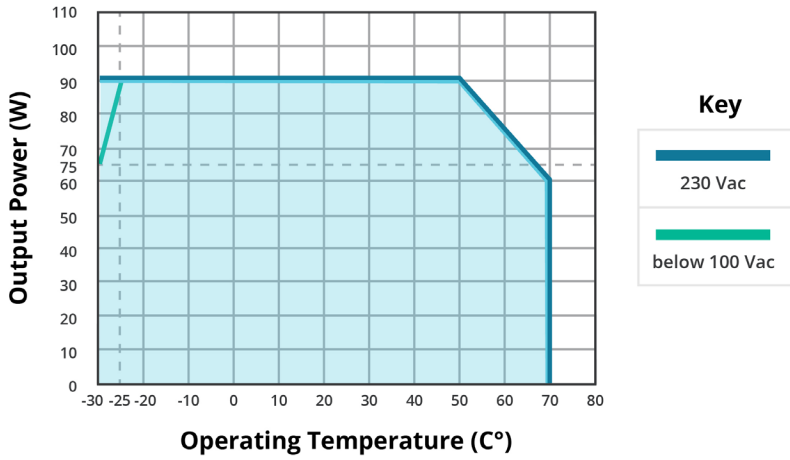
Position	Screw spec.	L (max)	Torque (max)
② - ③	M3	5 mm	0.4 N·m
⑥ - ⑦	M3	3 mm	0.4 N·m

Note: At least one hole position, ①~⑧ must be securely connected to Protective Earth (PE)⊕

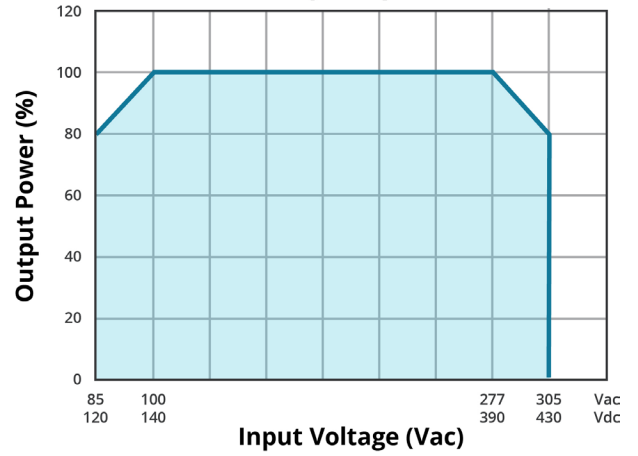


## DERATING CURVE

**TEMPERATURE DERATING CURVE**

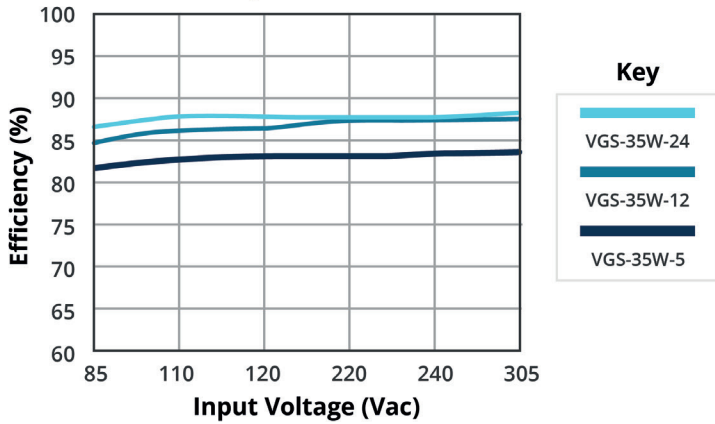


**INPUT VOLTAGE DERATING CURVE (25 °C)**

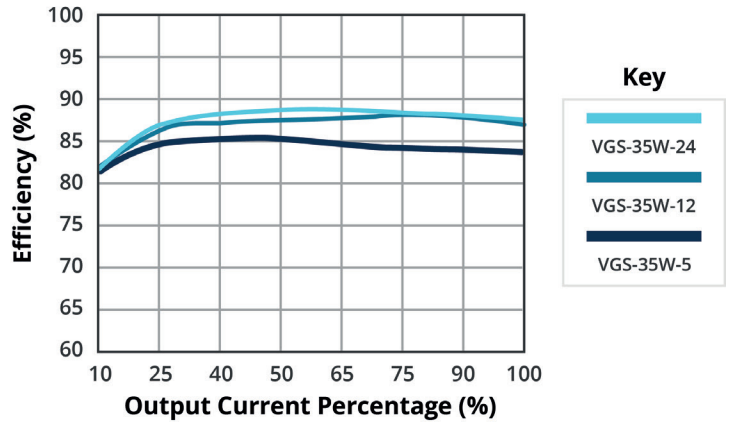


## EFFICIENCY CURVES

**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	added adjustability line	10/12/2020
1.02	derating and efficiency curves updated	06/04/2021
1.03	UKCA mark added	06/10/2022

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



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