



## INPUT

parameter	conditions/description	min	typ	max	units
voltage	ac input	85		264	Vac
	dc input	120		373	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	at 240 Vac			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			±0.5		%
load regulation	5 Vdc output, 0%~100% load		±1		%
	other outputs, 0%~100% load		±0.5		%
adjustability	built in trim pot	±10			%
hold-up time	at 115 Vac	8			ms
	at 230 Vac	30			ms
switching frequency			65		kHz
temperature coefficient			±0.03		%/°C

## PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	5 Vdc output, clamp			6.3	Vdc
	12 Vdc output, clamp			16.2	Vdc
	15 Vdc output, clamp			21.75	Vdc
	24 Vdc output, clamp			33.6	Vdc
over current protection	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	2,000			Vac
	input to output	4,000			Vac
	output to ground	1,250			Vac
safety approvals	certified to:	62368:	IEC/EN/UL		
	designed to meet:	60335:	IEC/EN		
	designed to meet:	61558:	IEC/EN		
	designed to meet:	4943:	GB		
safety class	Class I				
EMI/EMC	CISPR32/EN55032 Class B, IEC/EN61000-3-2 Class A				
ESD	IEC/EN 61000-4-2 Contact ±6KV /Air ±8KV, perf. Criteria A				
radiated immunity	IEC/EN 61000-4-3 10V/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				

## SAFETY & COMPLIANCE

conducted immunity	IEC/EN61000-4-6 10 Vr.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		-30		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	20		90	%
storage humidity	non-condensing	0		95	%

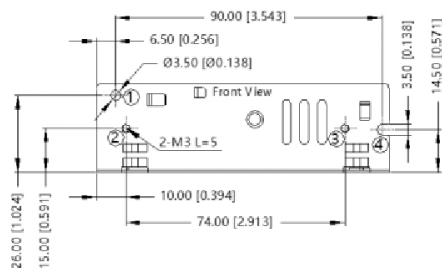
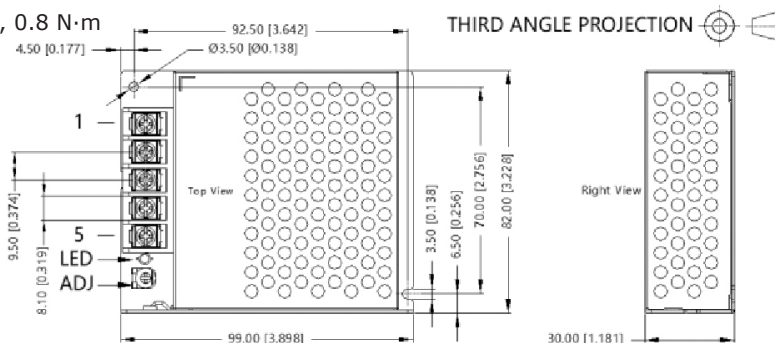
## MECHANICAL

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

## MECHANICAL DRAWING

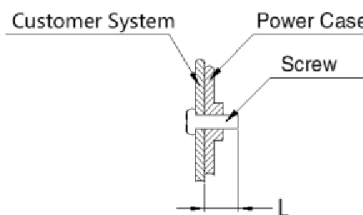
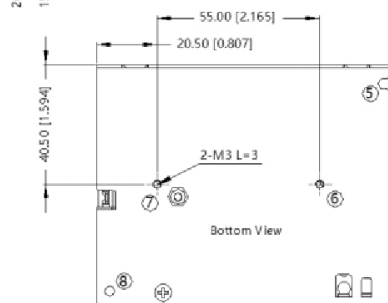
units: mm [inch]  
 tolerance: ±1.0 [±0.039]  
 wire range: 22-12 AWG  
 connector tightening torque: M3.5, 0.8 N·m

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



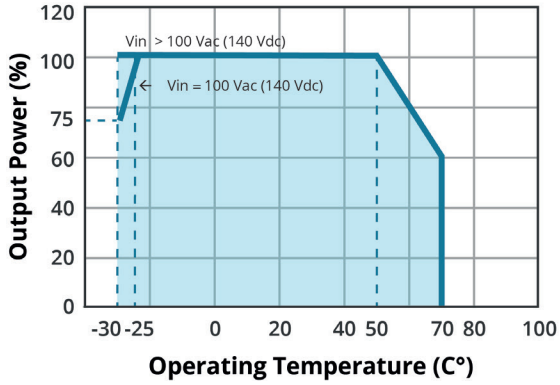
Position	Screw spec.	L (max)	Torque (max)
② - ③	M3	5 mm	0.4 N·m
⑥ - ⑦	M3	3 mm	0.4 N·m

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

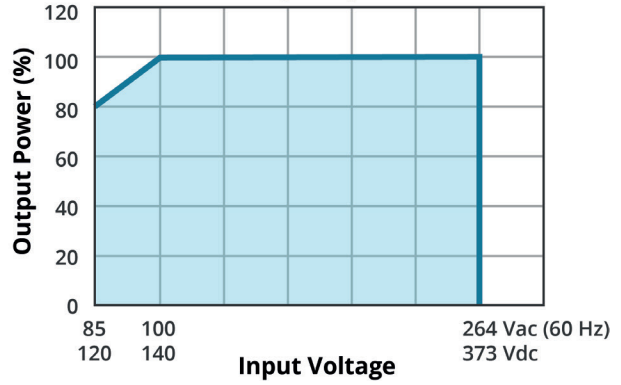


## DERATING CURVES

**TEMPERATURE DERATING CURVE**

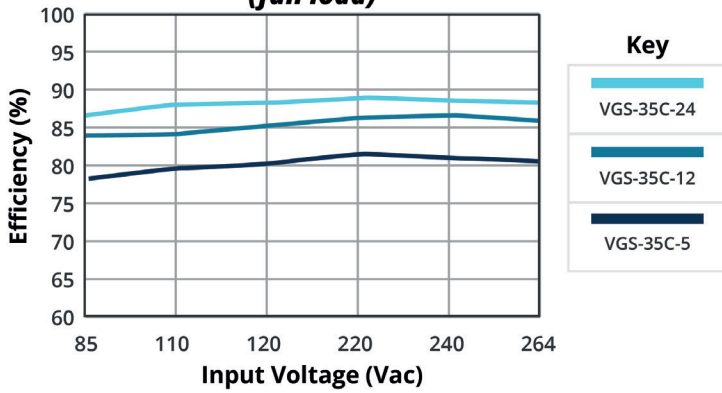


**INPUT VOLTAGE DERATING CURVE (25°C)**

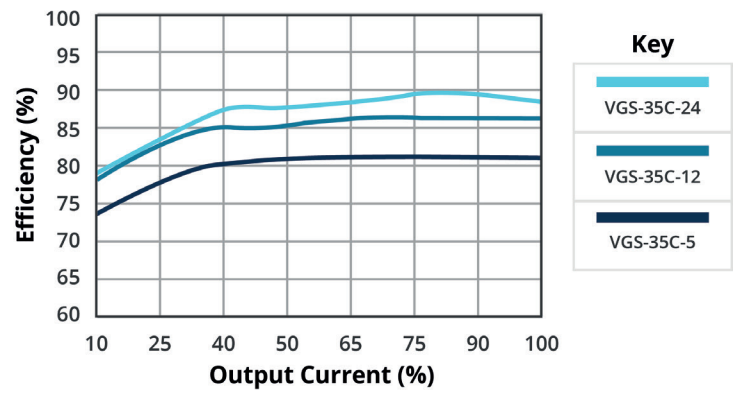


## EFFICIENCY CURVES

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



**EFFICIENCY VS OUTPUT LOAD**



## REVISION HISTORY

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rev.	description	date
1.0	initial release	09/28/2020
1.01	derating and efficiency curves updated	02/10/2022
1.02	UKCA mark added	06/06/2022

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



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