

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			4.2	A
	at 230 Vac			2.1	A
inrush current	at 115 Vac, cold start		35		A
	at 230 Vac, cold start		65		A
power factor	at 115 Vac, full load	0.98			
	at 230 Vac, full load	0.95			

OUTPUT

parameter	conditions/description	min	typ	max	units
capacitive load	5 Vdc output			5,000	μF
	12 Vdc output			5,000	μF
	15 Vdc output			5,000	μF
	24 Vdc output			5,000	μF
	48 Vdc output			5,000	μF
initial set point accuracy	at full load				
	5 Vdc output model		±2		%
	other Vdc output models		±1		%
line regulation	5 Vdc output model		±0.5		%
	12 & 15 Vdc output model		±0.3		%
	24 & 48 Vdc output model		±0.2		%
load regulation	0%~100% load				
	5 Vdc output model		±1		%
	other output models		±0.5		%
hold-up time	at 230 Vac		12		ms
temperature coefficient			±0.03		%/°C

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	5 Vdc output model, auto-recovery, hiccup			7.0	Vdc
	12 Vdc output model, auto-recovery, hiccup			16.2	Vdc
	15 Vdc output model, auto-recovery, hiccup			21.8	Vdc
	24 Vdc output model, auto-recovery, hiccup			32.4	Vdc
	48 Vdc output model, auto-recovery, hiccup			60.0	Vdc
over current protection	auto-recovery, hiccup	105		150	%
over temperature protection ¹	over temperature protection activation			85	°C
	over temperature protection deactivation	50			°C
short circuit protection	continuous, auto-recovery, hiccup				

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, <10mA	500			Vac
safety approvals	certified to 62368: IEC, EN, UL 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				
voltage flicker	IEC/EN61000-3-3				
ESD	IEC/EN 61000-4-2 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/EN61000-4-5 line to line ±1kV/line to ground ±2kV perf. Criteria A				
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	250,000			hours
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	20		90	%
storage humidity	non-condensing	10		95	%

MECHANICAL

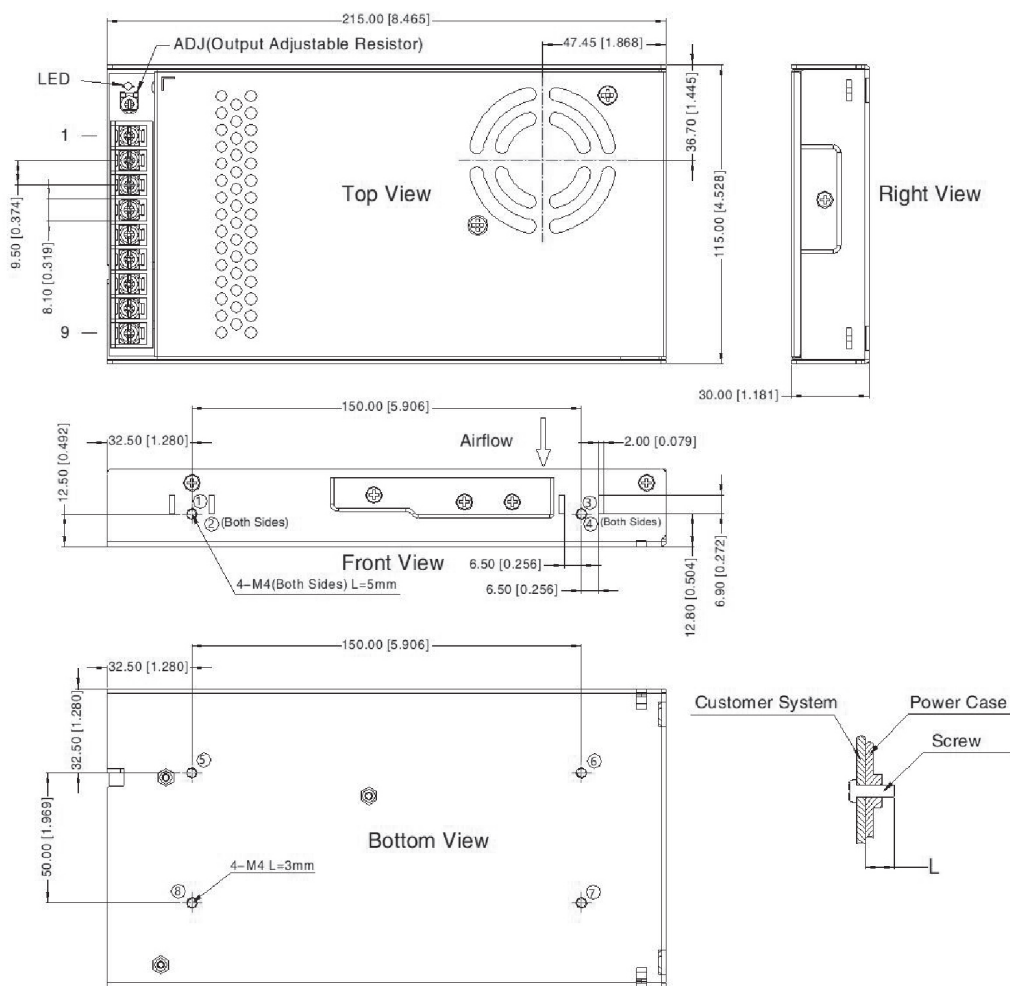
parameter	conditions/description	min	typ	max	units
dimensions	215 x 115 x 30				mm
weight			750		g
cooling	forced air cooling				
case material	metal (AL1100, SGCC)				

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	+Vo
2	+Vo
3	+Vo
4	-Vo
5	-Vo
6	-Vo
7	⏏
8	AC(N)
9	AC(L)

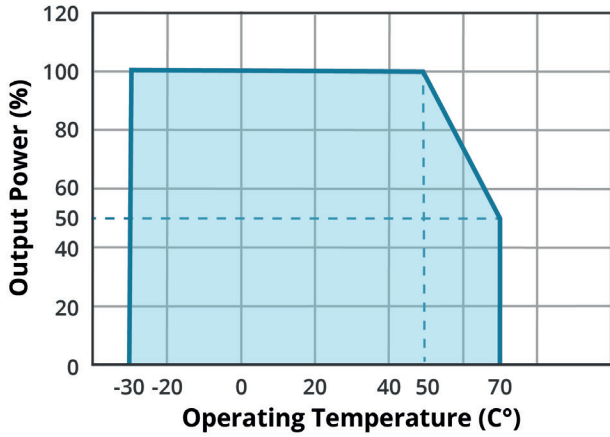
Note: At least one hole position, ①~⑧, must be securely connected to Protective Earth (PE). ⑨



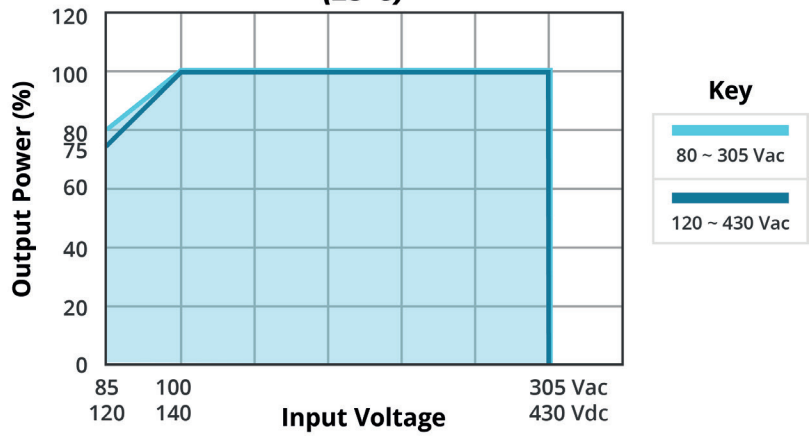
POSITION	SCREW SPEC	L (MAX)	TORQUE (MAX)
①~④	M4	5mm	0.9N·m
⑤~⑧	M4	3mm	0.9N·m

DERATING CURVE

TEMPERATURE DERATING CURVE

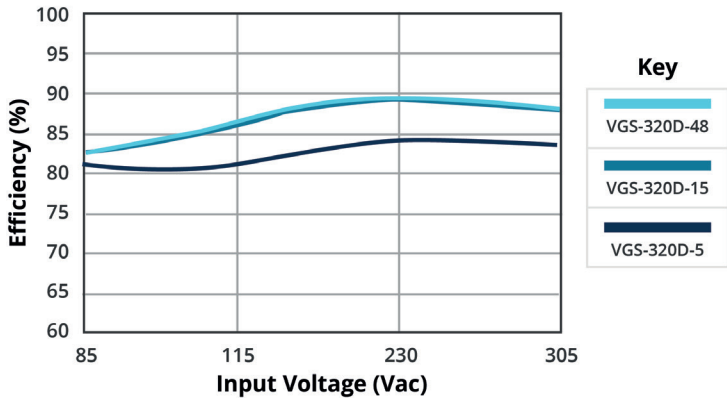


INPUT VOLTAGE DERATING CURVE (25°C)

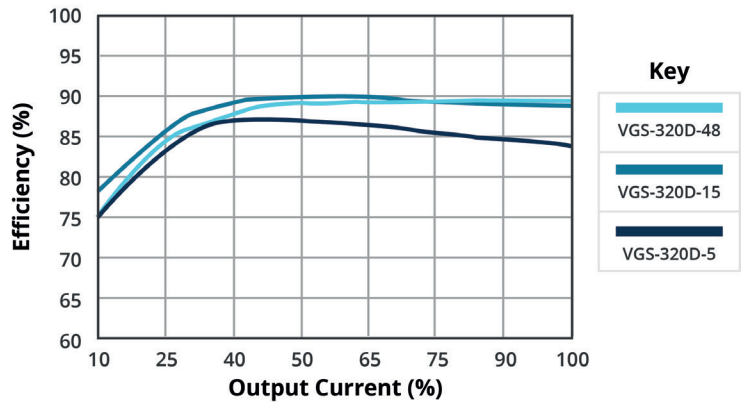


EFFICIENCY CURVES

EFFICIENCY VS INPUT VOLTAGE (full load)



EFFICIENCY VS OUTPUT LOAD



REVISION HISTORY

rev.	description	date
1.0	initial release	12/14/2020
1.01	derating and efficiency curves updated	01/28/2022
1.02	UKCA mark added	06/10/2022

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



Headquarters
20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

CUI offers a two (2) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.