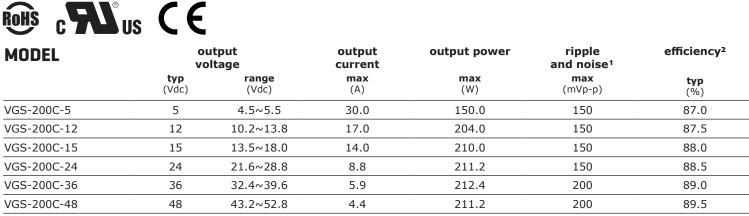


- UL/EN/IEC 62368 certified
- designed to meet IEC/EN 61558, IEC/EN 60335, and GB4943 system requirements
- short-circuit, over-current, over-voltage, over-temperature protections
- output adjustable via trimpot +/- 10%

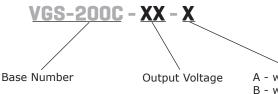




Notes: 1. Ripple and noise are measured at 20 MHz BW with 47 uF aluminum electrolytic capacitor and 0.1 uF ceramic capacitor on the output. 2. Measured at 230 Vac.

PART NUMBER KEY

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A - with terminal cover B - with conformal coating

date 01/31/2022 page 1 of 6

INPUT

parameter	conditions/description	min	typ	max	units
	ac input, low voltage (switch in position of 115)	90		132	Vac
voltage range	ac input, high voltage (switch in position of 230)	180		264	Vac
0	dc input, (switch in position of 230)	240		373	Vdc
frequency range		47		63	Hz
	at 115 Vac			5	А
current	at 230 Vac			3	А
inwich current	at 115 Vac, cold start		60		А
inrush current	at 230 Vac, cold start		60		А
no load power consumption	at 230 Vac, 25 °C			0.75	W

OUTPUT

parameter	conditions/description	min	typ	max	units
	5 V model			10,000	μF
	12 V model			4,000	μF
capacitive load	15 V model			3,300	μF
capacitive load	24 V model			1,500	μF
	36 V model			1,500	μF
	48 V model			470	μF
initial set point acuracy	5 V model, full load range		±3		%
	12 V model, full load range		±1.5		%
	all other models, full load range		±1		%
line regulation	rated load		±0.5		%
	5 V model, 0~100% load		±2		%
load regulation	12 V model, 0~100% load		±1		%
2	all other models, 0~100% load		±0.5		%
switching frequency			65		kHz
hold-up time	at 115 Vac	12			ms
	at 230 Vac	16			ms

PROTECTIONS

parameter	conditions/description	min typ		max	units
over current protection	auto recovery	110		185	%
over voltage protection	5 V model, output shut down, latching			8.0	Vdc
	12 V model, output shut down, latching			18.0	Vdc
	15 V model, output shut down, latching			22.0	Vdc
	24 V model, output shut down, latching			33.6	Vdc
	36 V model, output shut down, latching			46.8	Vdc
	48 V model, output shut down, latching			60.0	Vdc
short circuit protection	continuous, auto recovery, hiccup				
over temperature protection	latching				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output, 1 min, <10 mA input to ground, 1 min, <10 mA output to ground, 1 min, <5 mA	3,000 2,000 500			Vac Vac 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				
conducted emissions	CISPR32/EN55032 CLASS A				
radiated emissions	CISPR32/EN55032 CLASS A				

SAFETY & COMPLIANCE (CONTINUED)

parameter	conditions/description	min	typ	max	units	
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 ± 2 KV/line to ground ± 4 KV, perf. Criteria A					
conducted immunity	IEC/EN61000-4-6 10Vr.m.s, perf. Criteria A					
voltage dips and interruption	IEC/EN61000-4-11 0%, 70%, perf. Criteria B					
RoHS compliant	yes					
MTBF	as per MIL-HDBK-217F at 25 °C	300,000			hrs	

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	10		95	%
storage humidity	non-condensing	20		90	%
temperature coefficient				±0.03	%/°C

MECHANICAL

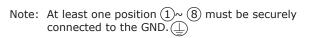
parameter	conditions/description	min	typ	max	units
dimensions	179.00 x 99.00 x 30.00				mm
weight			520		g
cooling	natural convection				
case material	metal (AL1100, SGCC)				

MECHANICAL DRAWING

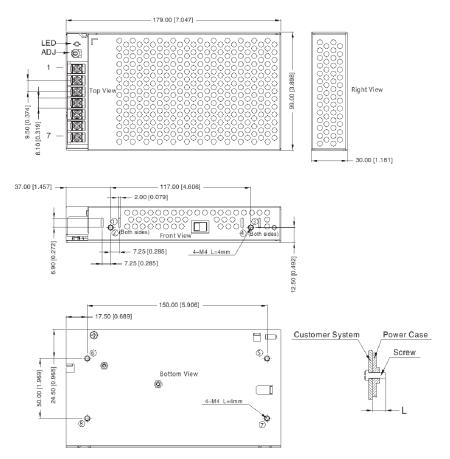
units: mm [inch] tolerance: ±1.00 [±0.039] wire range: 22~12 AWG connector tightening torque: M3.5, 0.8 N·m

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

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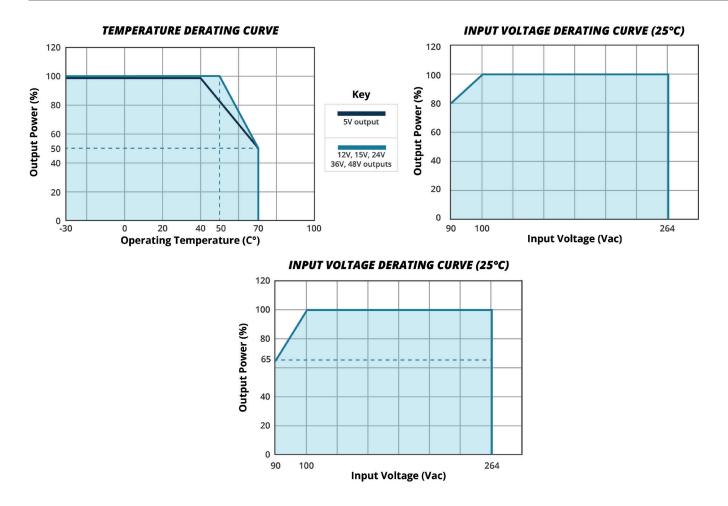


Switch	AC input	DC input
115V	90-132 Vac	
230V	180-264 Vac	240-373 Vdc

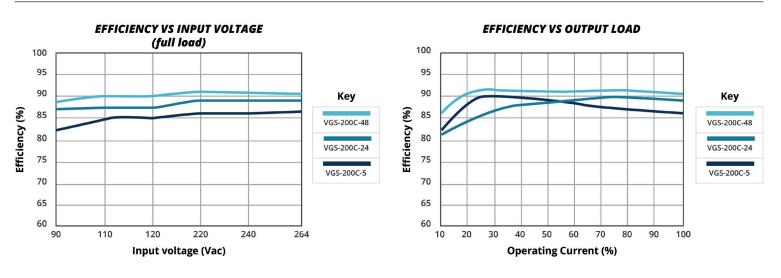


Position	Screw Spec.	L (max)	Torque (max)
1~8	M4	4 mm	0.9 N∙m

DERATING CURVES



EFFICIENCY CURVES



REVISION HISTORY

rev.	description	date
1.0	initial release	03/09/2021
1.01	derating and efficiency curves updated	01/31/2022

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

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

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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.