

SERIES: VGS-15W | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- wide input range (85 \sim 305 Vac)
- available with conformal coating or terminal cover options
- UL/EN/IEC 62368 certified
- designed to meet IEC/EN 61558 system requirements
- short-circuit, over-current, over-voltage protections
- input over voltage category III design
- CISPR/EN55032 Class B radiated/conducted emissions



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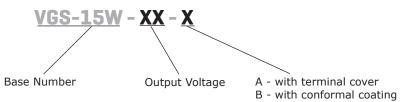
MODEL		ıtput Itage	output current	output power	ripple and noise ¹	efficiency ²
	typ (Vdc)	range (Vdc)	max (A)	max (W)	max (mVp-p)	typ (%)
VGS-15W-3	3.3	2.85~3.6	3.0	9.9	80	73
VGS-15W-5	5	4.5~5.5	3.0	15.0	80	78
VGS-15W-12	12	10.2~13.8	1.3	15.6	120	82
VGS-15W-15	15	13.5~18.0	1.0	15.0	120	82
VGS-15W-24	24	21.6~28.8	0.625	15.0	150	83
VGS-15W-48	48	42.0~54.0	0.32	15.36	150	83

Notes: 1. Ripple & noise are measured at 20 MHz BW with 47 uF electrolytic and 0.1 uf ceramic capacitors on the output.

2. Measured at 230 Vac.

PART NUMBER KEY

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INPUT

parameter	conditions/description	min	typ	max	units
voltago rango	ac input	85		305	Vac
voltage range	dc input	100		430	Vdc
frequency range		47		63	Hz
current	at 115 Vac			0.35	А
	at 230 Vac			0.25	А
inrush current	at 115 Vac		30		А
infusit current	at 230 Vac		50		А
leakage current	at 277 Vac			0.5	mA
no load power consumption	at 230 Vac			0.5	W

OUTPUT

parameter	conditions/description	min	typ	max	units
capacitive load	3.3 V models			3,000	μF
	5 V models			2,400	μF
	12 V models			1,800	μF
	15 V models			1,200	μF
	24 V models			600	μF
	48 V models			300	μF
initial set point acuracy	3.3 V models, full load		±3		%
	5 V models, full load		±2		%
	all other models, full load		±1		%
	3.3 & 5 V models, rated load		±1.0		%
line regulation	all other models, rated load		±0.5		%
land vegulation	3.3 & 5 V models, 0~100% load		±1.0		%
load regulation	all other models, 0~100% load		±0.5		%
switching frequency			65		kHz
hold up time	at 115 Vac		7		ms
hold-up time	at 230 Vac		48		ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over current protection	auto recovery	110		200	%
	3.3 & 5 V models, hiccup or clamp			6.75	Vdc
	12 V models, hiccup or clamp			16.2	Vdc
over voltage protection	15 V models, hiccup or clamp			21.8	Vdc
5 1	24 V models, hiccup or clamp			33.6	Vdc
	48 V models, hiccup or clamp			60.0	Vdc
short circuit protection	continuous, auto recovery, hiccup				

SAFETY & COMPLIANCE

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parameter	conditions/description	min	typ	max	units
	input to output, 1 min, <10 mA	4,000			Vac
isolation voltage	input to ground, 1 min, <10 mA	2,000			Vac
-	output to ground, 1 min, <10 mA	1,250			Vac
safety approvals	certified to 62368: IEC, EN, UL designed to meet 61558: IEC, EN				
safety class	class I				
conducted emissions	CISPR32/EN55032 CLASS B				
radiated emissions	CISPR32/EN55032 CLASS B				
ESD	IEC/EN 61000-4-2 Contact ±6KV/Air ±8KV, p	erf. Criteria B			

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SAFETY & COMPLIANCE (CONTINUED)

parameter	conditions/description	min	typ	max	units
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 \pm 1KV/line to ground \pm 2KV, 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		700,000		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	20		90	%
storage humidity	non-condensing	0		95	%
temperature coefficient			0.03		%/°C

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	65.00 x 55.00 x 25.00				mm
weight			90		g
cooling	natural convection				
case material	metal (AL5052, SGCC)				

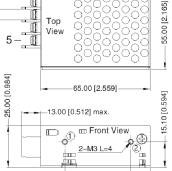
MECHANICAL DRAWING

units: mm [inches] tolerance: ±1.00 [±0.039] wire range: 22~14 AWG connector tightening torque: M3, 0.4 N·m

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

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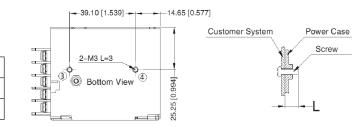
Œ1 7.62 [0.300] Ð 6.50 [0.256] ١Đ1 Left View ADJ



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- - 11.50 [0.453]



Note: At least one position $(1) \sim (4)$ must be securely connected to the $GND.(\perp)$

Position	Screw Spec.	L (max)	Torque (max)
1~2	M3	4 mm	0.4 N∙m
3~4	M3	3 mm	0.4 N∙m

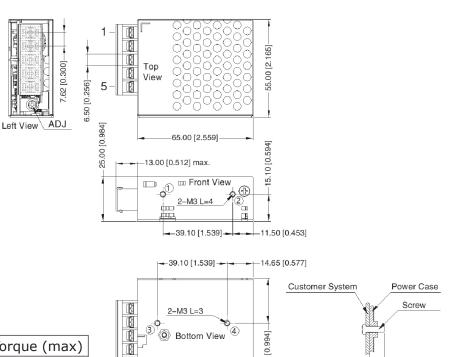


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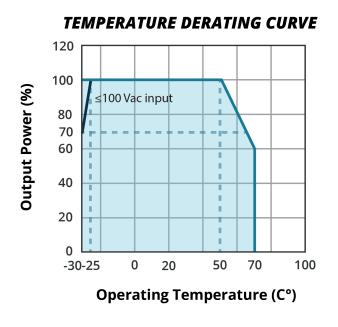
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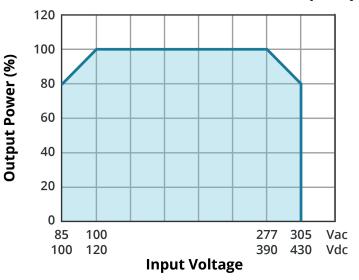
DERATING CURVES



INPUT VOLTAGE DERATING CURVE (25°C)

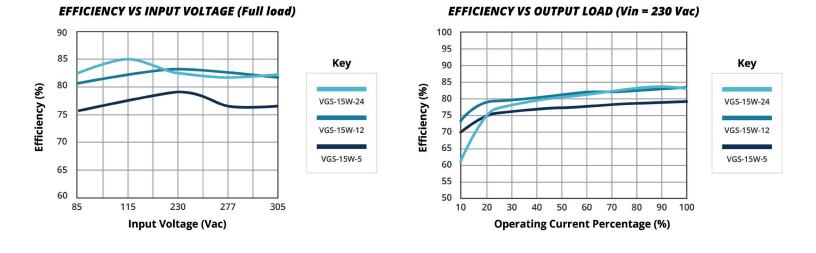
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EFFICIENCY CURVES

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REVISION HISTORY

rev.	description	date
1.0	initial release	02/10/2021

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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