

	FEATURES • Wide Operating Vol • C.C. Mode & C.V. M • Constant Current: 1 • Constant Voltage: 1 • Built-In ORing Diode • All Units Pass Burn-	2V 4V e	 Output Short Circuit, Over Voltage, Over Load, and Over Temperature Protection Output Reverse Polarity Protection RoHS2 Complaint IP67 Waterproof Rating Protection Class II 		
	APPLICATIONS Outdoor Installations Evident 	power in a 4.76" x 3.79" :	DC/DC converters offers 168 watts of output x 1.44" package. This series has a wide		
Size: 4.76in x 3.79in x 1.44in (120.9mm x 96.2mm x 36.5mm)	• EV	18VDC as well as constant current of 12V and This series also offers protection class II and a its IP67 waterproof rating, built in ORing d high wattage the DCVK168 is ideal for EV			

Rev A

MODEL SELECTION TABLE							
Model Number	del Number Input Veltage Pange	Setting Voltage Range ⁽¹⁾	Current	Enable		Ripple & Noise	Output Power
Model Number Input Voltage Range	DC Voltage	Imax	DC Voltage	Imin	Ripple & Noise		
DCVK168-14S	60-118VDC	14Vo	12A	5~16VDC	1.25mA	200mVp-p	168W

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances. SPECIFICATIONS INPUT SPECIFICATIONS Input Outage Range Input Voltage Range Input Voltage Range Input Specifications Specifications Specifications Data I Input Specifications	SPECIFICATIONS					
SPECIFICATION TEST CONDITIONS Min Typ Max Unit INPUT SPECIFICATIONS 60 118 VDC A Input Current Low Line, Full Load, Vin=60VDC 3.5 A A OUTPUT SPECIFICATIONS 118 VDC A A OUTPUT SPECIFICATIONS 0.11 % A A OUTPUT SPECIFICATIONS Vin=100VDC, 10-90% Load Change at Condition 0.5 1 % Load Regulation Vin=100VDC, 10-90% Load Change at Condition 2±5 % % Output Voltage 168 W W 04put Outernt See Table Ripple & Noise Full Load, Vin=70~110VDC See Table See Table %/*C PROTECTION Full Load, Vin=70~110VDC Yes 9/*C Yes Over Load Protection Yes Yes 9/*C Yes Over Load Protection Yes Yes Yes Yes Over Load Protection Yes Yes Yes Yes Over Voltage Protecti	All specifica	ations are based on 25°C, Nominal Input Voltage, and Maximum Output Currer We reserve the right to change specifications based on technological ad	it unless oth vances.	erwise note	d.	
INPUT SPECIFICATIONS VDC Input Voltage Range 60 118 VDC Input Current Low Line, Fuil Load, Vin=10VDC 3.5 A OUTPUT SPECIFICATIONS 3.1 A OUTPUT SPECIFICATIONS See Table Incertain See Table Line Regulation Vin=100VDC, 10-90% Load Change at Condition 5 % Output Current Vin=100VDC, 10-90% Load Change at Condition ±5 % Output Current See Table 118 W Regulation Vin=70-VDC 0.5 1 % Output Current See Table W W % Rolpe & Noise See Table 168 W PROTECTION See Table \$0.04 %/*C PROTECTION Ver Latch Yes \$0.04 %/*C Over Votage Protection Yes Yes \$0.04 %/*C PROTECTION Yes Yes \$0.04 %/*C Over Votage Protection Yes Yes \$0.04 %/*C	SPECIFICATION			Tvp	Max	Unit
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Low Line, Full Load, Vin=60VDC 3.5 A OUTPUT SPECIFICATIONS 3.1	Input Voltage Range		60		118	VDC
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MTBFOperating temperature @Vin=100VDC/Io=7A@25°C, per MIL-HDBK-217F100,000Image: Constraint of the second and the	Operating Humidity	Non-Condensing	0		95	%RH
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Weight Approx. 1.68lbs (0.76kg) Dimensions (L x W x H) 4.76in x 3.79in x 1.44in (120.9mm x 96.2mm x 36.5mm) Cooling Free Air Convection Waterproof Rating ⁽²⁾ Image: Pree Air Convection SAFETY CHARACTERISTICS Image: Pree Air Convection EMC Meets UN R10 Image: Class B Electro Static Discharge, ISO10605 Image: Son	Dielectric Withstanding Voltage	Primary to Secondary			1500	VAC
Dimensions (L x W x H) 4.76in x 3.79in x 1.44in (120.9mm x 96.2mm x 36.5mm) Cooling Free Air Convection Waterproof Rating ⁽²⁾ IP67 SAFETY CHARACTERISTICS ICass B EMC Meets UN R10 Class B Electro Static Discharge, ISO10605 15 kV	PHYSICAL SPECIFICATIONS					
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Cooling Image: Cooling Stating (2) Waterproof Rating ⁽²⁾ Image: Cooling Stating (2) SAFETY CHARACTERISTICS Image: Cooling Stating (2) EMC Meets UN R10 Electro Static Discharge, ISO10605 Image: Cooling Stating (2)	Dimonsions (L x W x H)			4.76in x 3.7	'9in x 1.44in	1
Waterproof Rating ⁽²⁾ Image: Performance of the second			(120	.9mm x 96.	<u>2mm x 36.5</u>	mm)
SAFETY CHARACTERISTICS EMC Meets UN R10 Class B Electro Static Discharge Air Discharge, ISO10605 15 k/					,	
EMC Meets UN R10 Class B Electro Static Discharge, ISO10605 15 V				IP	67	
Electro Static Discharge, ISO10605						
	EMC					Class B
Contact Discharge, ISO10605 20	Electro Statio Discharge					k\/
		Contact Discharge, ISO10605			20	ΓV

Wall Industries, Inc. • Tel: 603-778-2300 • Toll Free: 888-597-9255 • website: www.wallindustries.com • e-mail: <u>sales@wallindustries.com</u>



NOTES

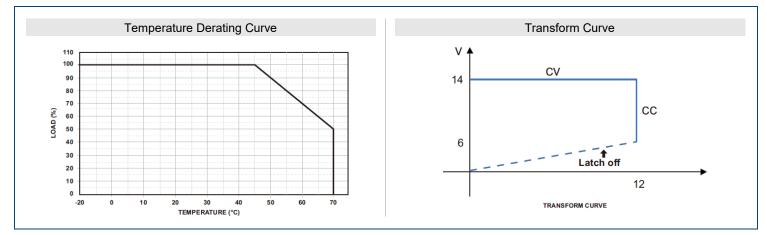
- 1. Factory setting, cannot be adjusted.
- 2. It is normal for a small amount of water to run in, but product can still operate normally.
- 3. Output can provide up to peak load when the power supply starts up. Continually staying in ore than the rated load is not allowed.

Rev A

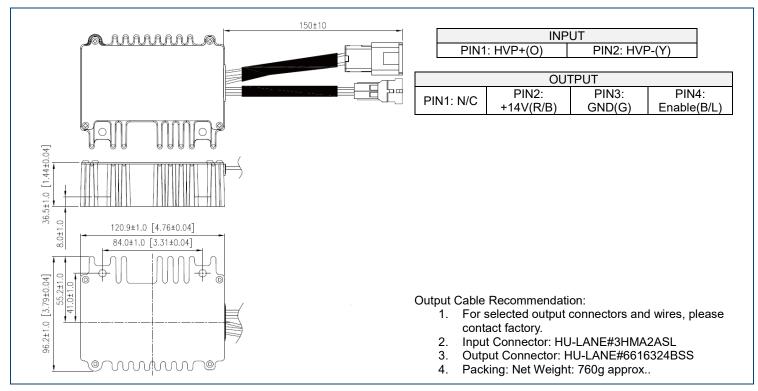
- 4. At factory, in 60% rated load conditions, each output is checked to be within voltage accuracy.
- 5. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- 6. Load regulation is defined by changing ±40% of measured output load from 60% rated load.
- 7. The ripple is measured from peak to peak with a bandwidth-limit of 20MHz (measured at output connector with a 0.1uF ceramic capacitor and a 47uF electrolytic capacitor).
- 8. Efficiency is measured at rated load and nominal line.

*Due to advances in technology, specifications subject to change without notice.

CHARACHTERISTIC CURVES ·



MECHANICAL DRAWINGS



Wall Industries, Inc. • Tel: 603-778-2300 • Toll Free: 888-597-9255 • website: www.wallindustries.com • e-mail: <u>sales@wallindustries.com</u>





COMPANY INFORMATION -

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact Wall Industries for further information:

Phone:	2 (603)778-2300
Toll Free:	(888) 597-9255
Fax:	2 (603)778-9797
E-mail:	sales@wallindustries.com
Web:	www.wallindustries.com
Address:	37 Industrial Drive
	Exeter, NH 03833

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