# 51V to 12V High Power DC to DC Buck Converter



**Power Conversion Series** 

CAT # 52-158-51-12-2500



#### **Buck Converter Details**

2,500W Power Output Water & Vibration Resistant Voltage Output: 13.8V

#### **KEY BENEFITS**

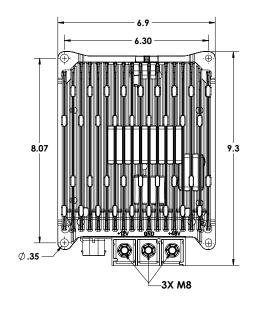
- High Power: Efficiently converts voltage for house power applications
- Under Voltage Shut Off: Eliminates the chance of overdischarge of the lithium battery
- + **Short Circuit Protection:** Autoresets with pulse current

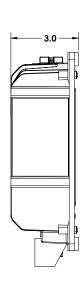
#### **Advanced Power Conversion**

The DC-DC Buck Converter is engineered with advanced high-frequency power conversion technology to transfer power from the 51V house battery to 12V chassis loads. Our DC to DC converter provides a high efficiency stabilized output for various appliances.

#### **DIMENSIONS**

Size (L x W x H)	9.3" x 6.9" x 3.0"	236.2mm x 175.3mm x 76.2mm
Weight	6.5lbs	2.9kg

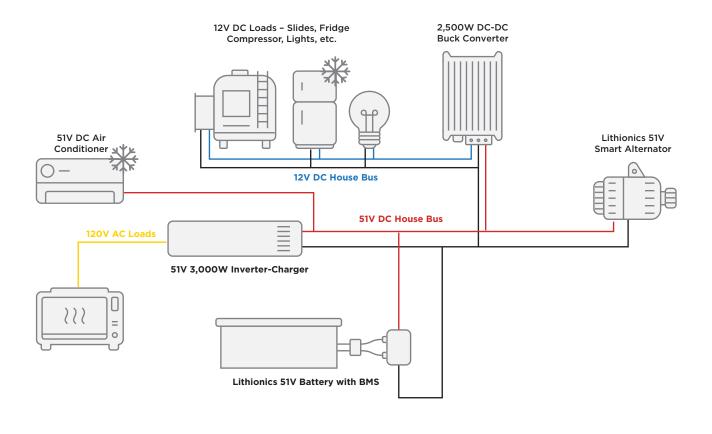




## **SPECIFICATIONS**

ELECTRICAL		
Input Voltage	40.0V to 59.0V	
Output Voltage	13.8V ± 0.2V	
Max Output Current	178A	
Efficiency	>90% @5% load, >95% @100% load	
Idle Power	2W	
I/O Signal Connector	Reserved for future development, not currently used	
MECHANICAL		
Operating Temperature	-40°C to 120°C	
Ingress Protection	IP67	
Terminal Torque	11 ±1ft-lb (15±1.5Nm)	

## **SYSTEM DIAGRAM**



# **Powering Innovation.**

Discover the right lithium replacement system for you. Reach out to Lithionics' expert support team to find your perfect power solution.

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