

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

## Power Conversion Series



CAT # 52-158-12-51-2000



### Boost Converter Details

2,000W Power Output  
Water & Vibration Resistant  
Lithium Float Voltage: 54.0V

### KEY BENEFITS

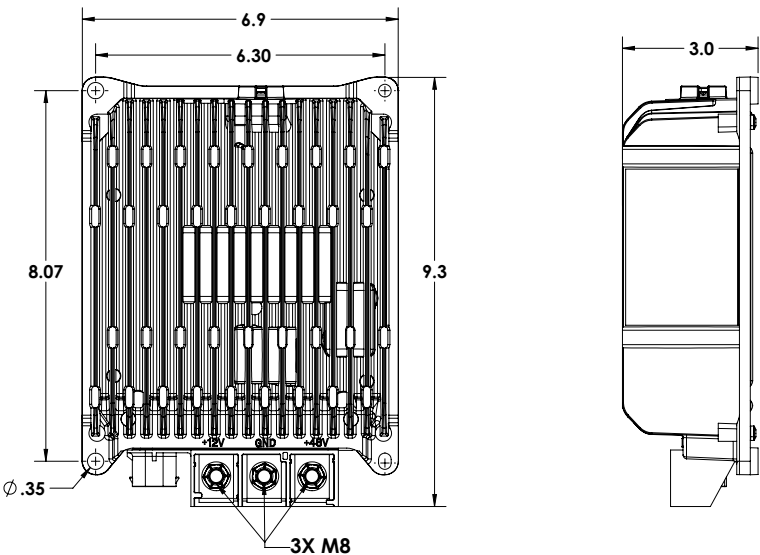
- + **High Power:** Efficiently converts voltage for house power applications
- + **Under Voltage Shut Off:** Eliminates the chance of overdischarge of the chassis battery
- + **Short Circuit Protection:** Autoresets with pulse current

### High Efficiency, Smart Charging

The DC-DC Boost Converter utilizes advanced high-frequency power conversion technology to efficiently transfer power from a high-output 12V alternator to a 51V house battery. With its compact design, regulated voltage, and robust protective features, this converter ensures the chassis battery is not depleted when the engine is not running.

### 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

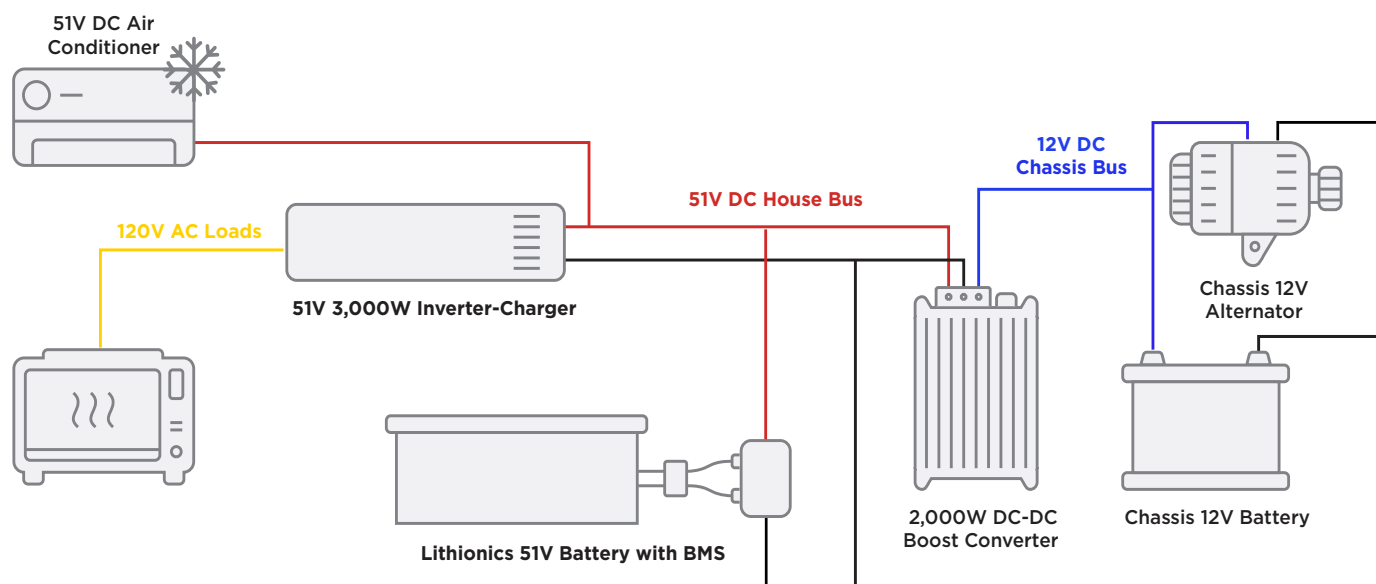
### ELECTRICAL

Input Voltage	13.2V to 16.0V
Output Voltage	54.0V $\pm$ 0.2V
Max Output Current	38A
Efficiency	>90% @5% load, >95% @100% load
Idle Power	2W
I/O Signal Connector	Reserved for future development, not currently used.
Battery Charge Profile	No

### MECHANICAL

Operating Temperature	-40°C to 120°C
Ingress Protection	IP67
Terminal Torque	11 $\pm$ 1ft-lb (15 $\pm$ 1.5Nm)

## SYSTEM DIAGRAM



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