

51V to 12V High Power DC to DC Converter

CHARGER SERIES

CAT # : 52-158-51-12-2500



Buck Charger Details

2,500W

Water & Vibration Resistant

Key Benefits

- ✓ **High Power Level:** Efficiently converts voltage for house power applications
- ✓ **Under Voltage Shut Off:** Eliminates the chance of over-discharge of the battery
- ✓ **Short Circuit Protection:** Auto-resets with pulse current

Advanced Power Conversion

The DC-DC 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):

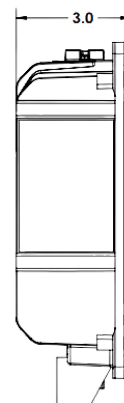
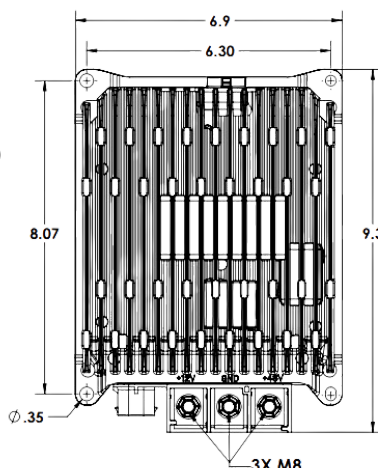
9.3" x 6.9" x 3.0"

(236.2mm x 175.3mm x 76.2mm)

Weight:

6.5lbs

(2.94kg)



SPECIFICATIONS

VOLTAGE AND CAPACITY

Input Voltage: 40V to 59V

Output Voltage: 13.8V ± 0.2 V

Max Output Current: 178A

Operating Temperature: -40°C to 120°C

ELECTRICAL

Efficiency:

$\geq 90\%$ @5% load

$\geq 95\%$ @100% load

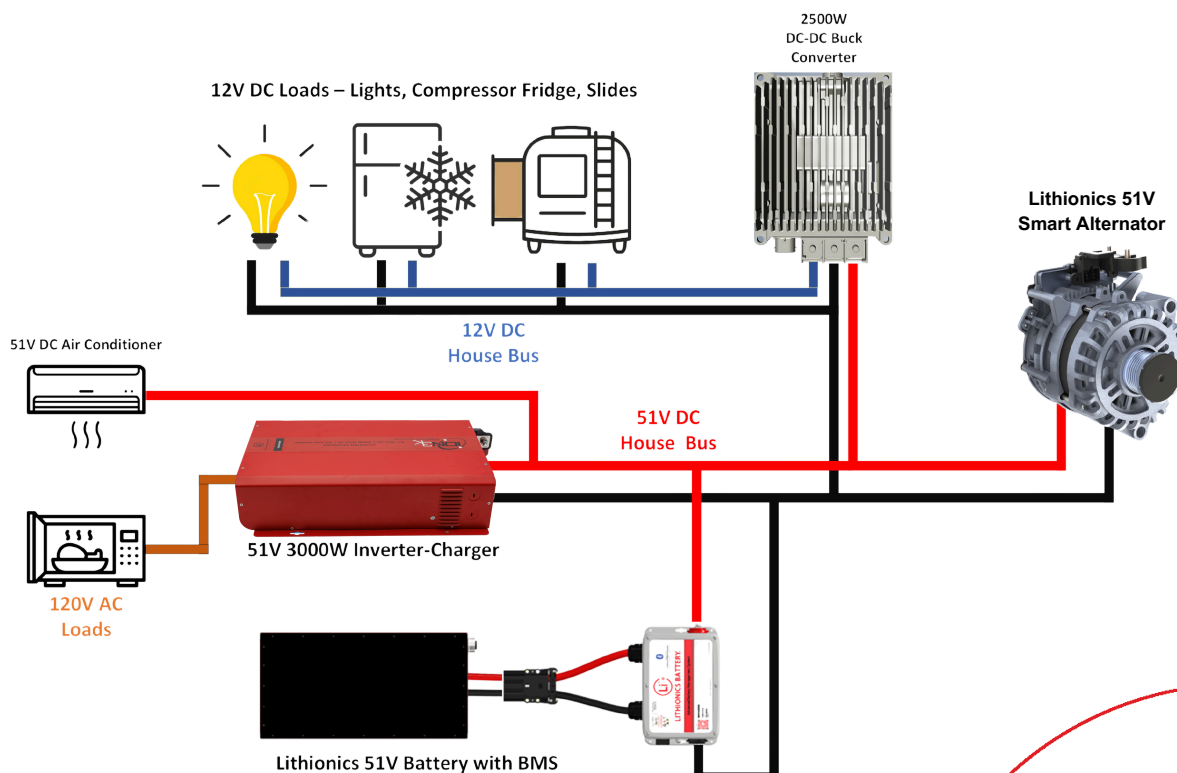
Idle Powe: 2W

MECHANICAL

Ingress Protection: IP67

Torque Terminal: 11 ± 1 ft-lb (15 ± 1.5 Nm)

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.