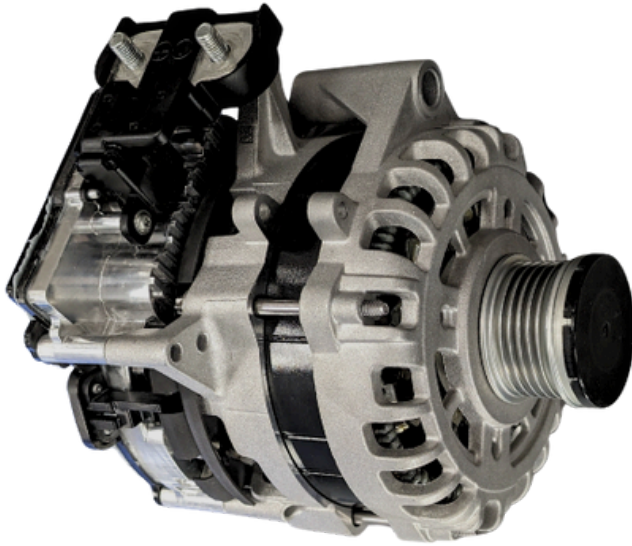


51V 6,500W PowerPremier Alternator

SmartPower Series

CAT # 85-301-48



Power Output

Idle: 2,000W at 650 RPM

Cruise: 6,500W at 1500 RPM+

Key Benefits

- ✓ **Charge at Idle:** Efficiently charges the battery while vehicle is stationary
- ✓ **Smooth Running:** Uncompromised vehicle drivability and longer accessory belt life
- ✓ **No Programming Required & Simplified Installation:** Lithionics BMS directly controls the alternator

Reliable Power, Unmatched Safety

The PowerPremier is an inverter-based generator that replaces outdated alternators by utilizing MOSFET technology in place of unreliable diodes. The PowerPremier features rectangular hair-pin stator winding resulting in greater power output and improved efficiency. Experience reliability, safety, and efficiency with fast-charging capabilities.

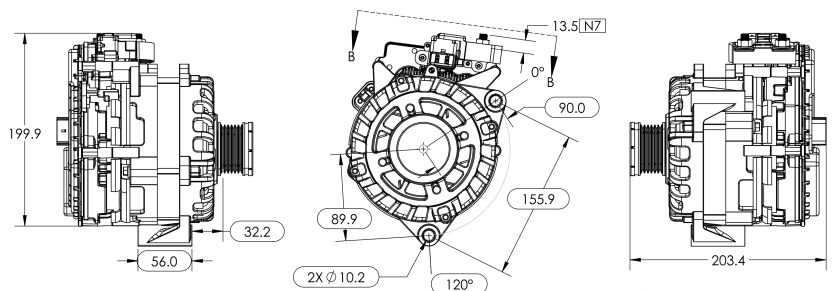
DIMENSIONS

Size (L x W x H):

7.9" x 6.1" x 8.0"
(199.9mm x 155.9mm x 203.4mm)

Weight:

16.8lbs.
(7.6kg)



SPECIFICATIONS

MECHANICAL

Bracket Mount: Mercedes Benz N62

Power Terminals: 2x M8x 1.25 (torque nuts to 19Nm +2.5Nm)

Recommended Ring Terminal: 1/0 AWG 5/16" (Quick Cable 5955E)

Fans: Dual Cooling Fans

Pulley: 50mm O.D., 6-groove, freewheeling pulley

Housing Material: Aluminum

ACCESSORY LIST

Bracket: N62 by Mercedes

Volta System Controller: LSCVoA

ELECTRICAL

Regulation: Internal, requires RV-C CANbus

Recommended Wire Gauge: 1/0 AWG

Recommended Fuse Size: 150A

Stator Wiring: Hair-pin Rectangular Winding

Efficiency: Up to 85%

Operating Temperature Range: -30°C to 105°C

Operating Voltage Range: 40.0V to 57.6V

Protocol Data Communication: RV-C CANbus

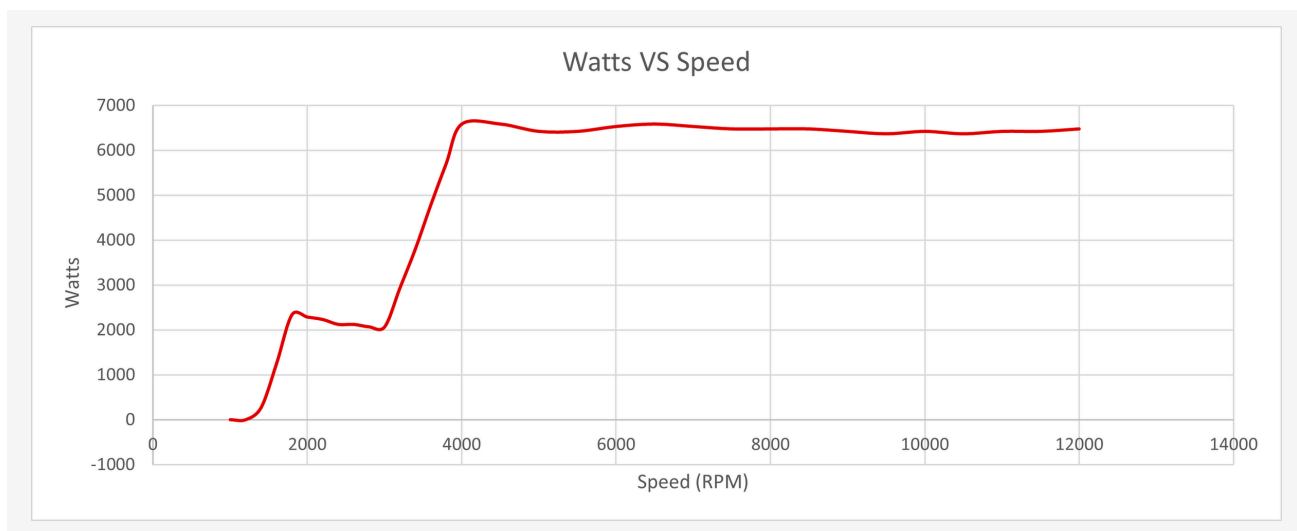
Low Voltage Connector: 8-pin, Molex MX64 Series

Low Voltage Connector Parts

Housing: Molex 0314049110 or 0314049100

Pin Plug: TE 1456538-1 (for unpopulated wires)

Contacts: TE 2035170-2 or 2035170-1



Powering Innovation.

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