

Lithionics-Volta Alternator Gateway

System Controller Kit



CAT # 57-01-100



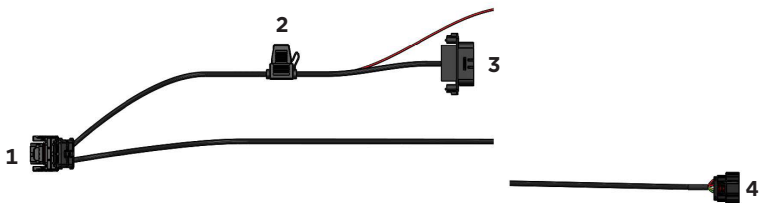
KEY BENEFITS

- + **Seamless Integration:** Upgrade compatible Volta Battery Systems with Lithionics Smart Alternator to improve your systems reliability and charging performance.
- + **Plug and Play Installation:** The wire harness is designed specifically for Volta Battery System specifications for simple installation.

Streamlined System Communication

Acts as a gateway between the Lithionics Smart Alternator and the Volta system by automatically translating the commands upstream and downstream. Essentially it acts as a translator by “speaking” both Lithionics and Volta’s data language.

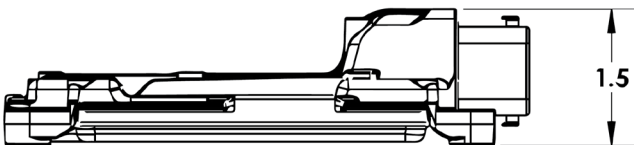
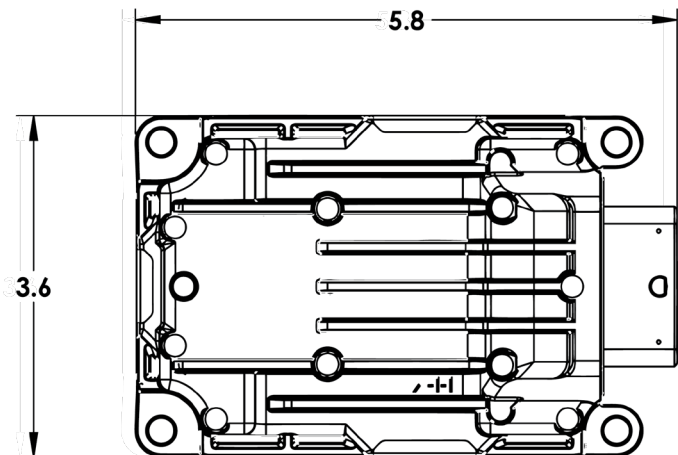
Wire Harness



1. System Controller Connector
2. Fuse
3. Volta Harness Connector
4. Smart Alternator Connector

DIMENSIONS

| | | |
|------------------|--------------------|---------------------------|
| Size (L x W x H) | 5.8" x 3.6" x 1.5" | 146.7mm x 92.3mm x 40.0mm |
| Weight | 0.6 lbs | 0.3kg |



SPECIFICATIONS

MECHANICAL

| | |
|-----------------------|---|
| Housing Material | Aluminum |
| Storage Temperature | -40°C to 105°C |
| Operating Temperature | -40°C to 105°C |
| Thermal Shock | SAE J1455, section 4.1.3.2, -40°C to 125°C, 500 Cycles |
| Fluid Resistance | Two-stroke motor oil, four-stroke motor oil, unleaded gasoline, ASTM Reference 'C' fuel |
| Humidity Resistance | SAE J1455; section 4.3.3.2, 90% Humidity at 85°C for 1,000 Hours |
| Salt Fog Resistance | SAE J1455; section 4.3.3.2, 500 Hours, 5% Salt Fog @ 35°C |
| Immersion | SAE J1455; section 4.3.3.2, 4.34 psi test (simulated 3m/10ft), salt water, 20 minutes |
| Mechanical Shock | MIL-STD 810H, Method 516.8, Procedure I 50 G's, 11 ms, half-sine wave, 4 shocks per direction |
| Drop Test | SAE J1455, 6 drops on concrete from 1m, no hidden damage |
| Environmental | IP6k7 |

ELECTRICAL

| | |
|----------------------------------|--|
| Communication | RV-C CANbus, Volta CAN |
| Battery Voltages | 8-16V Steady State, 5.5V minimum operating voltage, 18V Max Overvoltage |
| Reverse Battery Voltage | -13.8V for up to 5 minutes |
| Short to Battery/Short to Ground | All pins shall tolerate short to battery and short to ground connections |
| ESD | Up to 4kV Handling, up to 15kV Operating |

COMPONENTS

Lithionics-Volta Alternator Gateway: 57-01-100-1

Wiring Harness: 75-810-VTA

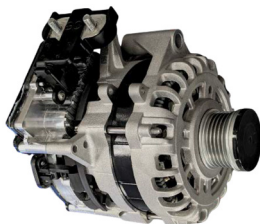
Miscellaneous Installation Hardware

INSTALLATION INSTRUCTIONS

PENDING

Smart Alternator Details

[Lithionics Smart Alternators](#)



Powering Innovation.

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

DS-035