



## Vehicle Battery Regulator / Isolator Specification

**LFP12V100AREG | LFP12V200AREG**



The AIMS Power battery voltage regulator and isolator protects batteries using solid state technology by automatically disconnecting a 12V DC source when voltage is not safe or out of operating range. This product allows you to use different battery technologies in the same application and lithium batteries can be used in any application (alternators) because the regulator prevents the battery from over charging. Its compact and simple 2-wire terminal configuration allows for easy installation in common 2-wire 12 Volt applications: vehicle, wind, hydro or any other 12V systems. The regulator continuously monitors the input voltage. If the voltage is within the operating range of 9.4 – 14.4V, power will be supplied to the output terminal allowing power to the loads. If the voltage drops below 9.2V or is over 14.6V the power is cut off at the output terminal preventing power to the loads. The regulator also performs as an isolator by automatically disconnecting loads when the battery voltage is outside of operating range, protecting the main starting battery. Loaded with several safety features, the regulator will protect your batteries, while prolonging the overall life.

Specification	LFP12V100AREG	LFP12V200AREG
	100Amp	200Amp
Voltage Input	9.4-14.4Vdc	
Output Operation	Input Voltage: 9.4-14.4Vdc Output On	
	Input Voltage < :9.2Vdc Input Voltage > :14.6Vdc Output Off	
<b>Over Current Shutdown:</b>		
Current > than 100A/200A and < than 125A/250A, the relay is disconnected after 1 minute.		
Current > than 125A/250A and < than 150A/300A, relay is disconnected after 10 seconds.		
Current > than 150A/300A, the relay is disconnected immediately.		
* Once the current is within operating range, the regulator will reset after 2 minutes resuming normal operation.		
Weight	1 lb	1.7 lb
Dimensions L*W*H	5.75" x 4.75" x 2.125"	7.825" x 4.75" x 2.125"

## Installation

1. The regulator should be installed by a person trained and skilled in vehicle electrical systems.
2. The installation should comply with SAE and the vehicle manufacturer’s electrical wiring procedures.
3. The regulator should be installed inside of the vehicle, in a dry and protected environment.
4. Cable size should be rated for 100 or 200 amps depending on model of regulator.
5. Do not connect loads to the output that will exceed the output current rating of the regulator (100 or 200 amps depending on model).
6. We recommend using female blade terminals that connect to the terminals on the regulator. Be sure to properly crimp these terminals. Do not solder wires directly to the regulator’s terminals.
7. Install fuse as close as possible to the power source on positive lead.
8. Ground chassis wire should be 6 AWG.

# DIAGRAMS

