



Lithium Batteries

High power, low price lithium batteries with integrated BMS - 60Ah-120Ah

When you take into account how many conventional batteries you will destroy in operation to match the performance and cycle span of a lithium. A lithium battery is by far the lowest cost per cycle of any battery. Further reading on lithium batteries is available on page 66



- Bluetooth BMS App**
- State of Charge %
 - Battery Voltage
 - Number of cycles
 - Current flow
 - State of each cell
 - Balancing
 - Temperatures
 - Parameter settings

For many years people have wanted a simple, easy, solution to installing lithium batteries in the automotive industry; today we have lithium batteries with built in BMS and automatic shutdown systems that take care of the extreme faults that may be presented to a lithium battery. With the simple addition of a Battery to Battery charger the correct voltage and current profile is provided to the battery from the vehicle's alternator with no integration fuss. This means when your alternator voltage is low, the battery to battery charger increases the voltage and when your alternator's voltage is too high the battery to battery charger decreases it. Also, when you have too much current, the battery to battery charger reduces the current, thus, presenting the lithium battery with its ideal safe voltage and current requirements. This has never been more important than with the modern Euro 5/6 vehicle applications. The first all in one - simple to install - package that removes all fears with this technology for application on vehicles.

Lithium battery capacity is 100% usable, unlike that of lead acid's 50%.

Lithium batteries are also less than half the weight of the equivalent lead acid. This means that the available energy per weight ratio is 4 times better with lithium batteries.

Strap on the 100Ah model to aid with lifting.

up to 0.8C charge
up to 2C discharge
(model dependent)

4 batteries can be linked in series to make up to a 48V battery bank.

Unlimited batteries can be linked in parallel to increase Ah capacity, increase charge and discharge rates.

E13

Advanced Mobile Power Systems
100 Ah Lithium Battery: Pt: AL12100
E13 10R00-10R05-14430-00

BMS and Safety features :

- Automatic fault recovery system.
- Internal cell thermal safety fuse.
- Flame retardant electrolyte.
- Fire retardant plastic case.
- Explosion proof stainless steel cells.
- Built in Battery Management System - cell balancing.
- Automatic battery protection system - internal.
- Automatic low voltage disconnect at 10V.
- Instant automatic short circuit protection.
- Protects the battery when high/low voltage | too high current and too high temperature.

Cell type is Prismatic

Handles on the 120Ah model to aid with lifting.



12V 120Ah Model

12V 80Ah Model

12V 60Ah Model

recommended charging voltages:
Absorption: 14.4V
Max charge: 14.6V
Float: 13.8V



Positive and negative terminals with bolt / thread and washer.

Capacity Ah	60Ah	80Ah	100Ah	120Ah
Voltage	12.8V	12.8V	12.8V	12.8V
Watt Hours Wh	760Wh	1024Wh	1280Wh	1536Wh
Continuous charge current (max)	50A (0.8C)	60A (0.7C)	70A (0.7C)	80A (0.7C)
Continuous discharge current (max)	120A (2C)	130A (1.6C)	150A (1.5C)	150A (1.5C)
Cell type	Prismatic	Prismatic	Prismatic	Prismatic
Recommended charge voltage	14.4V	14.4V	14.4V	14.4V
Float voltage	13.8V	13.8V	13.8V	13.8V
Cutoff temperature	-20Deg C	-20Deg C	-20Deg C	-20Deg C
E13 Marking	yes	yes	yes	yes
Dimensions L x H x D cm	28 x 17.2 x 17.6	26 x 21 x 16	33 x 21.5 x 17	41 x 23.5 x 17
Part Number	AL1260	AL1280	AL12100	AL12120