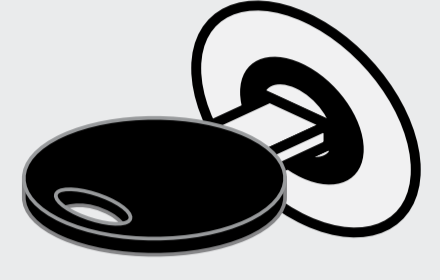


OptiMATE Lithium (LiFePO₄) starter battery facts

1 START

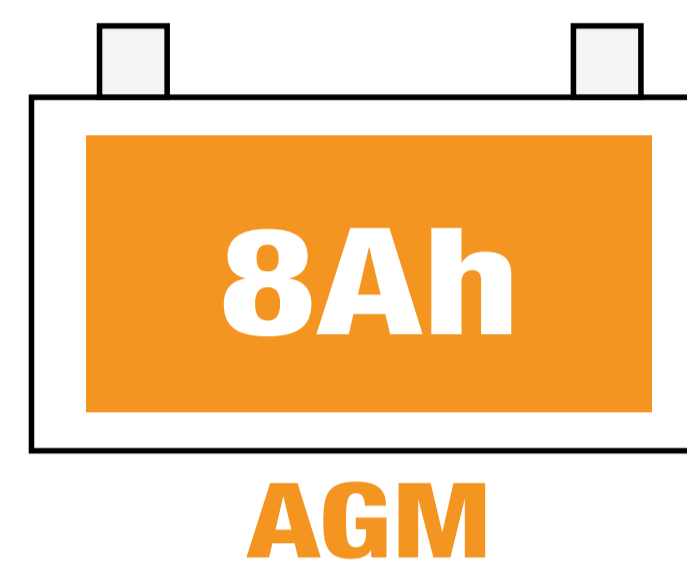


A LiFePO₄ battery has less amp-hour (Ah) capacity than a lead-acid battery, but delivers higher cranking amps (C.A.).

A vehicle's 'always on' circuitry drain amp-hours out of the battery; the smaller lithium battery will drain faster.

The OptiMate Lithium maintenance mode supports 'always on' circuitry and keeps the lithium battery charged and ready.

SIZE (Ah)
to deliver
120 C.A.



= +/- 120 C.A.

2 VOLTS

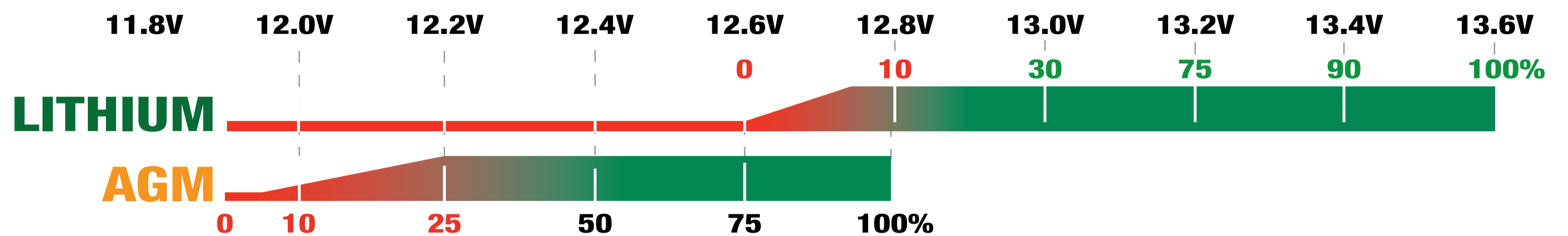


A LiFePO₄ battery's voltage range is higher than lead-acid and it can deliver rated cranking amps down to 10% charge.

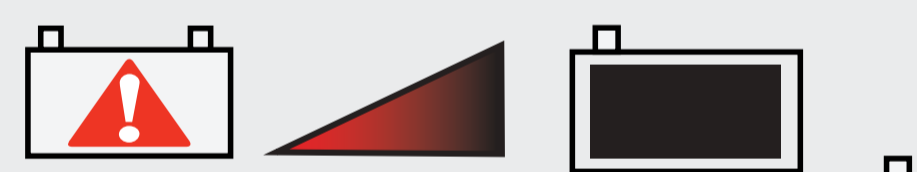
Each cell in a lithium battery needs a controlled balancing charge to always deliver its rated power and voltage.

The OptiMate Lithium charge method includes a unique pulse equalize (cell balance) mode that bring all cells to full charge.

VOLTS
% CHARGE



3 SAVE A FLAT BATTERY

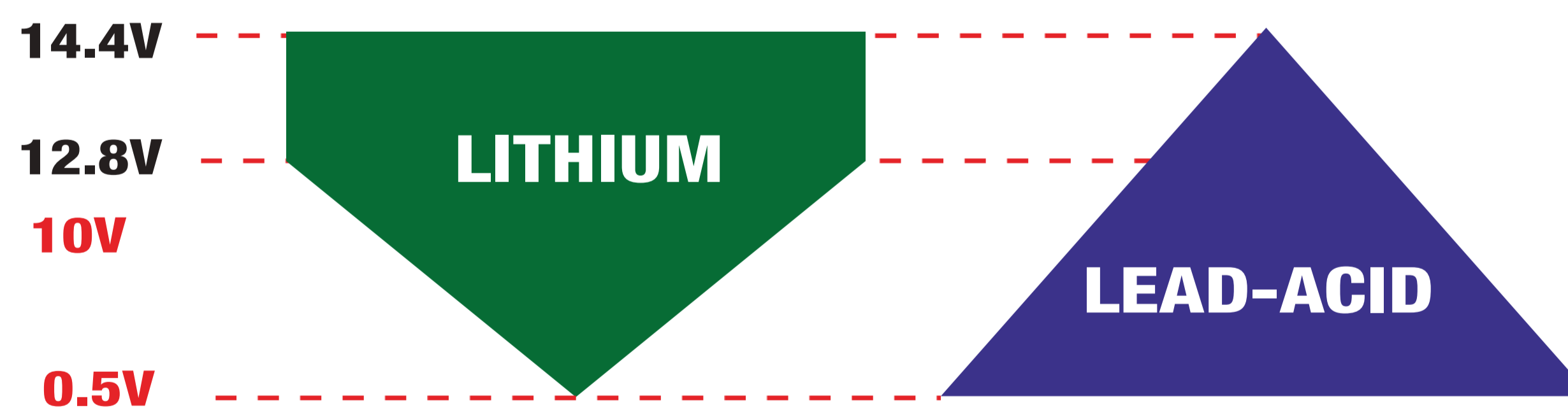


A flat LiFePO₄ battery needs low current to recover safely.

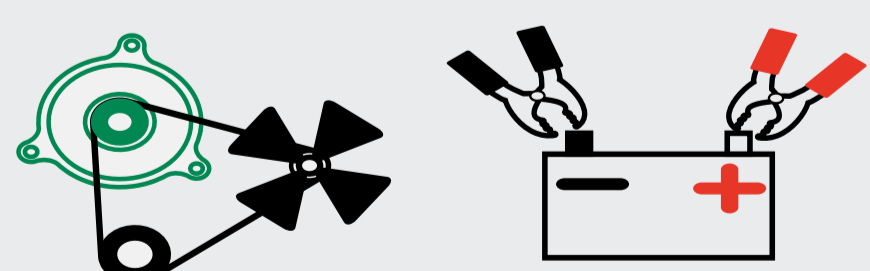
HIGH CURRENT at low voltage causes permanent damage.

OptiMate Lithium's SAVE mode delivers a controlled low current charge until the battery reaches a safe 12.8V (10% charge).

CHARGE
PROFILE



4 CHARGING



A LiFePO₄ battery needs accurate charge voltage control.

Charging higher than 14.6V causes permanent damage.

OptiMate Lithium delivers accurate multistep charging up to the ideal maximum voltage of 14.4V (3.6V / cell).

SAFE
CHARGE
VOLTAGE

