

## **BATTERY CHARGERS**

# AQ-TRON® SMART CHARGERS

#### **SMART CHARGING**

These AQ-TRON chargers maximize the life of your battery through a series of 4 to 10 steps in a unique charging process, the chargers constantly monitor the condition of the battery. When required, they take appropriate action: desulphating, reviving, charging, conditioning and maintaining. AQ-TRON chargers regulate the charge voltage to protect sensitive and expensive electronics.

Some AQ-TRON chargers recondition and help revive deeply discharged batteries. Others even have a backup power supply mode, so you can change your vehicle's battery without losing any program settings. Once the charger is connected, you can forget about how long the battery needs to be charged or whether it is sulphated. Our chargers take care of all this automatically. We call it "connect and forget".





| Ref.        | Voltage<br>input | Watt | Voltage<br>Output | Ampere  | Туре  | Ah                            | Dimensions (mm) | Weight |
|-------------|------------------|------|-------------------|---------|---|-------------------------------|-----------------|--------|
| LAD/AQ1000  | 220-240          | 20   | 6/12V             | 1A      | All Types 6/12V lead acid batteries                 | Max. 30Ah                     | 130x60x34       | 0,25kg |
| LAD/AQ2000  | 220-240          | 40   | 6/12V             | 2A      | All Types 6/12V lead acid & 12V lithium batteries   | Max. 60Ah                     | 235x82x122      | 0,4kg  |
| LAD/AQ3500  | 220-240          | 70   | 6/12V             | 3.5A    | All Types 6/12V lead acid & 12V lithium batteries   | Max. 120Ah                    | 265x92x122      | 0,52kg |
| LAD/AQ7000  | 220-240          | 120  | 12/24V            | 7/3.5A  | All types 12V/24V lead-acid & 12V Lithium batteries | 14-230AH (12V) 14-115Ah (24V) | 310x118x142     | 0,85kg |
| LAD/AQ15000 | 220-240          | 350  | 12/24V            | 15/7.5A | All types 12V/24V lead-acid & 12V Lithium batteries | 50-400Ah (12V) 25-200Ah (24V) | 437x125x207     | 1,5kg  |

LAD/AQ15000



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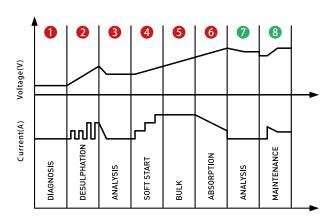














Pulsing voltage removes sulphates from the lead plates in the battery and restores battery capacity.

**DESULPHATION** 

STEP 2 SOFT START

STEP 1

Tests if the battery can take charge. Charging begins if the battery is OK.

3 STEP 3 BULK

Charges at maximum current, to approx. 80% of the battery capacity.

STEP 4 ABSORPTION, Ready for use

Charges at declining current until the battery has reached 100% of battery capacity.

5 STEP 5 ANALYZE

Tests if the battery can hold charge. Batteries that cannot hold charge may need replacement.

6 STEP 6 RECOND

Reconditioning function for deeply discharged batteries.

7

STEP 7 FLOAT (maintenance)

Fully charged

Maintains the battery voltage at maximum level by providing a constant voltage charge.

8 STEP 8 PULSE, Maintenance charging

Maintains the battery at 95-100% capacity. The charger monitors the battery voltage and gives a pulse when necessary, to keep the battery fully charged.



#### Optimization

Stabilizes internal battery chemistry for increased performance and longevity.



#### Load Tracking

Dynamically changes charge current when a load is piaced on the battery.



#### Diagnostics

Intuitive visual diagnostic tool for detecting reverse polarity. low-voltage or damaged batteries.



#### **Energy-Save**

Minimizes energy consumption when full power is not needed.



#### Safe

Protects against reverse polarity, sparks, overcharging, overcurrent, open-circuits, shortcircuits and overrheating.



#### Memory

Returns to last selected mode when restarted.



#### Interactive

Alters the charging process based on organic battery feedback.



#### Recovery

Applies a high-voltage pulse charge when lowvoltage, sulfation, or lost capacity is detected.



#### Rugged

 $\label{eq:Dirt} \mbox{Dirt, water, UV, impact, and crush resistant.}$ 



#### Maintenance Plus

Keeps the batteryfully charged without overcharging, indefinitely.