CAUTION! PLEASE READ!

Proper Charging is Crucial! Charge before initial use!

Be sure to read the 14V/16V Instruction Sheet for full instructions.

Proper Charging is crucial to the life of your XS Power battery. It is very important that the temperature of the battery remains cool with respect to the charge voltage. The chart below will help ensure proper charge voltage with different ranges of temperature.

<table>
<thead>
<tr>
<th>TEMPERATURE SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Operating Temp.</td>
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<tr>
<td>Charge Temp. Range</td>
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<tr>
<td>Discharge Temp. Range</td>
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<table>
<thead>
<tr>
<th>CHARGE VOLTAGE REFERENCE CHART (Volts Per Cell)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
</tr>
<tr>
<td>Charge Voltage</td>
</tr>
<tr>
<td>Float Voltage</td>
</tr>
</tbody>
</table>

Do Not Over-tighten Battery Terminals!

Whether using the automotive post adaptors, bolts or screws, the tightening torque should never exceed 8 ft-lbs max on any XS Power Battery!

PROP 65 WARNING: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer or birth defects or other reproductive harm. Wash hands after handling.

Installation

- Securely fasten the battery to the vehicle. XS Power 14 volt - 16 volt AGM Performance batteries are designed to bolt into most Group 24, Group 27, Group 31, Group 34, Group 74, and Group 78 battery tray set-ups.
- Connect the battery cables. Observe polarity carefully.
- The bolt-in design on the battery allows the user to bolt the battery cable lugs directly to the battery with provided hardware. Also available are positive and negative brass SAE top-post adaptors, or 3/8” stud adaptors that can be threaded into the bolt-in terminals on the top of the battery when using standard SAE, or other style battery terminals. Whether using the stud adaptors or the brass top post adaptors, the tightening torque should never exceed 8 ft-lbs max!
- If you are running a dual battery set-up, make sure that the batteries are hooked up in parallel (positive to positive and negative to negative). Parallel doubles the amperage and reserve capacities whereas series (positive to negative) would double the voltage output.

Insuring Adequate Battery Capacity

Although 14 volt - 16 volt batteries offer the obvious advantage of 2 or 4 additional volts of power, they do not offer increased reserve capacity. How much reserve capacity do you need? In a drag racing application, do you need one battery or two? Ultimately this is a matter for either good calculation or simple testing. Conditions that would suggest using two batteries in parallel include: driving a drag car to the staging lanes and back without an alternator, running ‘round robin’ in later rounds without charging, or having other heavy electrical loads on the system. For example, the starter will spin much faster on 16 volts it is difficult to determine when the battery is becoming discharged. A 16-Volt battery at 25% state of charge will still measure 16.0V open circuit across the terminals.

Once a 16-Volt battery is down to 14.0V open circuit, it is considered completely discharged and it will be unable to deliver amperage. Deep discharging the battery in this manner also reduces its life. Therefore in order to prevent a no-start situation, it is important that the battery state of charge be monitored. In vehicles without alternators, we recommend charging the battery at every opportunity with an automatic, three-stage battery charger.

Technical Assistance

Our Customer Service Department is eager to help you with any questions or issues you may have and are available from 8:30AM to 5:30PM, Monday thru Friday at 865-688-5953. In addition, technical support is available via FAX at 865-281-9844 or by email at tech@xspowerbatteries.com

Be sure to check out our website for additional technical and product information.

www.xspowerbatteries.com 888-4XS-POWER International: 865-688-5953
**WARNING/SAFETY Precautions**

Warning: Lead-acid batteries of all designs produce explosive gasses. Sparks of any kind could cause a battery to explode.

Therefore:
- Never smoke when around a battery.
- Never weld or otherwise produce sparks around a battery.
- Do not allow tools or other metal objects to fall across the battery terminals- this will short circuit the battery.
- Always wear protective clothing and eye wear when servicing a battery.
- Sulfuric acid can cause severe burns. If acid comes into contact with your skin flush with water immediately. If acid comes in contact with your eyes, flush immediately with water for fifteen minutes and seek medical help promptly.
- Neutralize acid spills with baking soda and water.
- Keep all batteries out of reach of children.
- California Proposition 65 Warning: Batteries, battery posts, terminals, and related accessories contain lead and lead compounds, and other chemicals known to the State of California to cause cancer, birth defects, and reproductive harm. Wash hands after handling!

Caution:

Do not overcharge this battery. Use only a voltage limited automatic battery charger set at 2.45VPC±.05VDC/cell maximum.

This is a sealed battery. Do not attempt to remove the vent caps under the top label.

Recycle used batteries in accordance with local, state, and federal law at an authorized recycling center.

Battery must be recycled!

**Care of XS Power 14-V/16V AGM Battery**

- Charge voltage is not to exceed 2.45VPC±.05V for extended periods of time.(Sinim. max)*
- The charger used MUST HAVE and automatic shut-off.
- *Some AGM chargers may climb to a maximum voltage of 21.0VDC for a short period of time (usually less than 5min.) but will resume charging at or near 2.45VPC±.05V for the duration of the charge cycle. If you are unsure of your chargers capabilities, contact the manufacturer of the charger.

Exceeding 2.45VPC±.05V will cause the battery to "gas" and once the oxygen is released from the battery there is no way to restore it. The results will be reduced capacity and battery life and those results are permanent. This type of damage will cause the battery to show a proper open circuit voltage yet will not accept a charge and will become excessively hot during charging. Damage of this nature will void the warranty. Therefore ensure that your battery charger will not exceed 2.45VPC±.05V at any time during the charge cycle. For ease of use, we recommend recharging the battery with an XS Power IntelliCHARGER p/n 1005 or 1004, as it is a totally automatic 3 stage microprocessor controlled battery charger with float charging capability. This battery charger prevents overcharging, maintains proper performance and can be left on the battery indefinitely during non-use periods.

It is very important to NEVER USE a charger designed for flooded 14/16V batteries, not even once with a XS Power 14/16V AGM battery. Furthermore, we recommend that the battery be disconnected from the rest of the vehicle’s electrical system during charging.

"Off Season" Maintenance

All lead-acid batteries, both flooded and AGM designs, are subject to self-discharge and this self-discharge rate is very much affected by the ambient temperature in which the batteries are stored. Higher ambient temperatures will discharge the battery faster. Cool storage for the battery is best. The battery should be recharged whenever the open circuit voltage falls to 14.7V for 14 volt batteries, or 16.8V for 16 volt batteries. The float charge feature built into the XS Power IntelliCHARGER would prevent overcharging the battery and will maintain it well. This battery charger can be left on the battery indefinitely during non-use periods. The battery must be recharged as described in the Performance Curve diagram to the left.