

# User guide

## Operation Instructions

- Battery(VRLA) are delivered charged and ready for operation. Store them in a dry, cool place and away from heat, chemicals and vapors.
- Whenever the average unit voltage  $\leq 2.08$  Vpc or  $\geq 6$  months from delivery. Recharge them with 2.35 Vpc constant voltage(current 0.1~0.2CA) for about 12~24h.
- Always wear eye protection. Check all batteries for visible defects such as cracked containers, loose terminal posts, or other unrepairable problems. Batteries with these defects must be replaced.
- Check the contents of the package against the packaging list. Report any missing parts or shipping damage to us immediately.
- Never lift batteries by the terminal posts. Always lift batteries by the lifting handles.
- Check for the voltage of each unit. Battery voltages below 2.02Vpc need to be replaced necessary.
- Check unit polarity and voltage before making inter-unit connections.
- Use specified connectors/cables and accessories only
- Connect in parallel with cables of similar resistance and only at the end terminals of the string.
- Assure at least 8~10 mm air gap between units and between units and cabinet walls for proper airflow.
- Torque the supplied screws according to the forces listed. Verify that no screws have been overlooked.
- Check voltage and polarity of the complete battery string.
- Assure that the settings of the charger or rectifier are correct.
- Connect first the positive (+) terminal of the battery/string with the positive (+) terminal of the charger or exterior circuit and then the negative (-) terminal of the battery/string with the negative (-) terminal of the charger or exterior circuit.
- Minor sparking may occur when the connection is made.

## General Battery Care

- With proper hand and face protection, wipe down the top and side of the batteries.
- Do not rinse or spray battery pack with water hose.
- Regularly inspect cables and retorque terminals.
- Do not leave battery in discharged state as this will shorten the life.

## Temperature Effects on Performance and Life

Run times will vary as temperatures change  
Batteries are significantly less efficient under heavy discharges at lower temperatures:

- Increasing as the temp. rises above 25°C/77°F
- Decreasing as the temp. drops below 25°C/77°F

Charge times will vary as temperatures change  
Batteries are significantly less efficient when being charged at lower temperature

- Increasing as the temp. drops below 25°C/77°F
- Decreasing as the temp. rises above 25°C/77°F

Continued operation at higher temperatures will shorten battery life.

Storing your battery in extreme temperatures (high or low) will shorten the life.

## Important Handling Symbols



Do not add water. Do not add electrolyte. Bary Power products have a recognized gas recombination efficiency of greater than 99.9% and are sealed, non-spillable and maintenance-free.



Do not tamper with product labeling, container or vents. Warranty is VOID if product is tampered with.



Do not throw in the garbage. Lead acid battery is a 98% recyclable product and must be processed via a recognized recycling agency.



High voltage. Risk of shock. Do not touch uninsulated terminals or connectors.



More detailed specifications and service instructions are located at: [www.barypower.com](http://www.barypower.com).



This product must be recycled and is made of recycled products.



Contains lead.