

## BASIC OPERATING AND MAINTENANCE INSTRUCTIONS FOR ABSOLYTE® GX BATTERIES

(See Instruction Manual, Section 92.80, for detailed instructions)

### 1.0 Safety Precautions

- 1.1 Batteries contain sulfuric acid which can cause burns and other serious injury. In the event of contact with sulfuric acid, flush immediately and thoroughly with water. Wear safety goggles, rubber apron and rubber gloves.
- 1.2 Batteries can generate explosive gases which, when released, can explode and cause blindness and other serious injury. Keep sparks, flames and smoking materials away from the battery area.
- 1.3 Multi-cell systems attain high voltages. Extreme caution must be exercised during installation of a battery system. Interrupt the AC and DC circuits before working on batteries or charging equipment.

### 2.0 Storage

- 2.1 Batteries shall be stored indoors in a cool (less than 25°C (77°F)), clean and dry location. **The storage interval shall not exceed six (6) months, unless the battery receives an equalize charge within (6) months and every six (6) months thereafter as long as it remains in storage. Elevated temperatures (>25 °C) will result in higher rates of self-discharge and require shorter charging intervals. Refer to I/O Manual, Section 92.80.**

### 3.0 Charging (constant voltage only)

- 3.1 See table below for charge voltages and times for initial charge and equalize charge (see I/O manual for conditions that may necessitate an equalize charge). Charge voltage may be limited by system equipment. Determine the maximum volts that may be applied to the system equipment. This voltage, divided by the number of cells connected in series, will establish the maximum volts per cell (VPC) that are available.

CELL VOLTS	TIME-HRS
2.30	24
2.35	12

- 3.2 Time periods listed are for 25°C (77°F). For other temperatures, the voltage must be compensated. Refer to I/O manual.
- 3.3 Recommended **float voltage is 2.23 to 2.25 at 25°C (77°F)**. For other temperatures, a compensation factor needs to be applied. Please refer to I/O Manual.
- 3.4 Operation of Absolyte GX cells at an average annual temperature above 25°C (77°F) and float voltages other than those recommended will result in a reduction of life. Absolyte batteries should never be operated above 50°C (122°F).

### 4.0 Connector Torque

- 4.1 Torque all terminal and intercell connections to 100 inch-lb at least once a year.

### 5.0 Inspection/Records

- 5.1 Monthly – Record battery terminal voltage, ambient temperature, and pilot cell voltage.
- 5.2 Annually – Retorque connections, record battery terminal voltage, ambient temperature, and individual cell voltages.\*

**\*Minimum requirement for warranty purposes**

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