In 1997, these valve regulated, sealed lead-acid (VRLA) batteries were submitted to the U.S. Department of the Navy for testing to Military Specification #MIL-B-8565J (Hydrogen Gas Emissions). This test requires 12 Volt Batteries to be heated to 131°F (55°C) and then charged at 16.1 VDC. The hydrogen gas that is emitted is measured during the test. For flammability in the air, a hydrogen concentration of 4.1% is required. The MIL Spec. requires a concentration of 3.5% or less to pass. All batteries submitted passed the test with flying colors. In fact, none of the batteries exceeded 1% hydrogen emission during severe overcharging at elevated temperatures! Our customers can and do feel extremely safe with Clary Outpost™ Batteries. Clary, “When it absolutely, positively HAS to keep running”.

Designed for Deep Cycle, EXTREME Temperature Applications

Wide Temperature Applications
Deep Cycle
Field Tested and Used for Years by the US Military
41, 51 & 105 Ampere-Hour (AH) Ratings
41AH - Standard
51AH - Optional
105AH - Optional
Sealed, Maintenance Free - No Need to Add Water
Absorbed Glass Mat (AGM) Construction
Microporous Spun Glass Separators
Non-Spillable, Immobilized Electrolyte
Recombinant Gas Technology
Copolymer Polypropylene Case and Cover
Developed for Use on Military Jet Fighters
Positive Plates - Special Lead Calcium

WHERE POWER IS A WAY OF LIFE

Recyclable
The Outpost™ AGM-VRLA batteries may be recycled at any smelter that processes lead acid automobile batteries. Due to the cadmium content used in their manufacturing process, some of the VRLA batteries are limited as to where they can be recycled.

DOT Shipping
Outpost™ AGM-VRLA batteries have been tested by an independent laboratory to meet DOT shipping requirements for hazardous materials, 49CFR A section 173.159. The testing requirements of 173.159 permit the batteries to be shipped as a non-spillable, wet electric storage battery and is exempt from the hazardous materials category.

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WHERE POWER IS A WAY OF LIFE
Features and Benefits

**Features**

- Pressure Relief Safety Valves
- Epoxy and Heat Sealed
- Absorbed Glass Mat Separator
- Thick Positive Plates
- Polyethylene Envelope

**Benefits**

- Recombinant gas batteries are sealed and allow operation in any orientation without leaking.
- Provides a durable package to withstand shock, vibration and extreme conditions.
- Provides ideal wicking characteristics for electrolyte retention.
- Designed for exceptional life.
- Rugged construction provides puncture resistance which eliminates short circuits.

## Charging Requirements

- **Initial Charge or Recharge**: 2.37 to 2.40 volts per cell at 25°C (77°F).
- **Float Charge**: 2.23 volts per cell at 25°C (77°F).
- **Equalize Charge**: 2.40 volts per cell at 25°C (77°F).
- **Temperature Compensation**: ±3.75 mV per cell per degree celsius referenced to 25°C (77°F). This is for battery temperature (not ambient temperature) and is useful for battery temperatures from -40°C to +74°C. No current limiting is required.
- **Charge Retention**: Clary Outpost™ Batteries retain charge five to ten times better than flooded or vented type batteries.

### Extreme Temperature Life Cycle, Clary vs. Other 80% Capacity

![Extreme Temperature Life Cycle Graph](image)

### Battery Information

<table>
<thead>
<tr>
<th>Battery Information</th>
<th>Voltage</th>
<th>Amp Hour Capacity</th>
<th>Estimated Runtime (77°F / 25°C, Full Charge)</th>
<th>Unit Weight Each</th>
<th>Overall Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>20 Hour Rate</td>
<td>Watt</td>
<td>Watt</td>
<td>Watt</td>
</tr>
<tr>
<td>Clary Part Model #</td>
<td>Nominal Volts</td>
<td>300</td>
<td>500</td>
<td>700</td>
<td>875</td>
</tr>
<tr>
<td>OPB-1241 72Vdc Systems</td>
<td>12 VDC</td>
<td>41 Amp / Hr. Batteries</td>
<td>6:30</td>
<td>3:50</td>
<td>2:30</td>
</tr>
<tr>
<td>OPB-1251 72Vdc Systems</td>
<td>12 VDC</td>
<td>51 Amp / Hr. Batteries</td>
<td>7:40</td>
<td>4:40</td>
<td>3:20</td>
</tr>
<tr>
<td>OPB-12105 72Vdc Systems</td>
<td>12 VDC</td>
<td>105 Amp / Hr. Batteries</td>
<td>15:00</td>
<td>9:30</td>
<td>6:30</td>
</tr>
</tbody>
</table>

Other battery options available – contact factory

Typical runtimes can vary and are adversely affected by age, temperature and current battery charge.

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Made in the USA

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