

OUTPOST™ Batteries

**Maintenance Free, Absorbed Glass Mat,
Valve Regulated Lead Acid (AGM VRLA)
Batteries**

12Volt - 41/51/105 Amp Hour

Operational from -40°F (-40°C) to +165°F (+74°C)

Includes Models:

**OP72C-41, OP96C-41, OP72D-51, OP96D-51, OPB-1241, OPB1251,
OPB-12105**



Testing performed on VRLA Batteries by Underwriters Laboratories for compliance to UL 924 and UL 1989. All Clary Outpost™ Batteries are UL recognized as system components.

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.

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

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".

Where Power is a way of life

Extreme Environment Batteries



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.

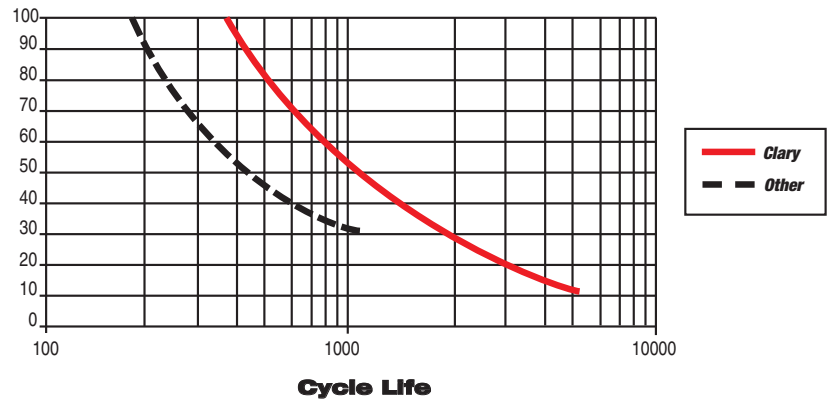
Designed for exceptional life.

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**



Battery Information	Voltage	Amp Hour Capacity	Estimated Runtime (77°F / 25°C, Full Charge)				Unit Weight Each	Overall Dimensions		
			300 Watt	500 Watt	700 Watt	875 Watt		Length (L) in (mm)	Width (W) in (mm)	Height (H) in (mm)
Clary Part Model #	Nominal Volts	20 Hour Rate	Hrs.:Min.	Hrs.:Min.	Hrs.:Min.	Hrs.:Min.	lbs (kg)			
OPB-1241 72Vdc Systems	12 VDC	41 Amp / Hr. Batteries	6:30	3:50	2:30	1:50	29 (13.2)	7.72 (196)	5.25 (132)	7.91 (205)
OPB-1251 72Vdc Systems	12 VDC	51 Amp / Hr. Batteries	7:40	4:40	3:20	2:30	35 (18.9)	8.99 (228)	5.45 (138)	8.82 (224)
OPB-12105 72Vdc Systems	12 VDC	105 Amp / Hr. Batteries	15:00	9:30	6:30	5:10	64 (29.0)	12.9 (327)	6.75 (171)	8.96 (228)

Other battery options available – contact factory
Typical runtimes can vary and are adversely affected by age, temperature and current battery charge.

CLARY
The Continuous Power Company™

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Made in the USA