

ZONE 1 BATTERY AND BATTERY BOX

Automatic Power/Pharos Marine offers an economic Zone 1 battery and battery box for hazardous area applications such as oil and gas platforms, refineries, wellheads, and gas pipelines.

Battery Box

Available in stainless steel or galvanized steel, this variable capacity, low profile box is designed for offshore and onshore applications in Zone 1 rated areas. The box is top opening for maximum accessibility. The top has overhanging lip to effectively keep out mist and spray. Box, hinges and mounting accessories are available in painted steel and stainless steel. Interior of the box is lined with PVC. All battery terminals are shrouded. The box has an M8 earthing stud and an earthing braid between the hinged top and body of the battery box. Box is complete with a EEx 'e' cable gland. Battery box is rated with specific models of batteries.

Battery

These batteries represent the latest in advanced technology in deep-cycle, maintenance-free, valve-regulated lead acid batteries. They provide superior performance and cycle life to conventional gelled electrolyte batteries in deep cycle and solar power applications. The battery features an advanced glass matte AGM technology with liquid (not gelled) electrolyte immobilized in a polyethylene envelope around the grids. It features a completely sealed design that operates in any position, never needs water, is vibration-tolerant and spill proof. The battery has very heavy duty intercell welds and thick positive plates giving deep cycle capability, long service life, low self discharge rate, freezing tolerance, and extended partial state of charge operation. It is rated for 350 total discharges before failure. By design, these batteries produce less than 2% hydrogen gas during a severe overcharge (4.1% is required for flammability in air).

Battery Specifications:

Self Discharge - Approx. 1% per month
 Positive Plate - Special Lead Calcium Alloy
 Negative Plate - Lead Calcium
 Container and Cover - Polypropylene
 Terminals - Heavy duty "L" blade

Life - In excess of:

- 2000 cycles at 10% Depth of Discharge (DOD)
- 800 Cycles at 50% DOD
- 500 Cycles at 80% DOD
- 350 Cycles at 100% DOD

Battery and Box are rated IP-56 and Eex 'e' IIB T5 to CENLEC Standard EN 50014/19.

Models are available:

Model	Z1B-12-4G	Z1B-12-2G
Voltage	12 Volts	12 Volts
Capacity	460 AH	230 AH
Weight	160 KG	80 KG
Width	755 mm	405 mm
Height	423 mm	448 mm
Depth	453 mm	453 mm
Fixing	420mm X 658 mm	420 mm X 308 mm

