

# MAINTENANCE FREE - VALVE REGULATED SEALED LEAD ACID BATTERIES MODELS

## APB-1295, APB-300, APB-6100, APB-1234 and APB-1238

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. Originally designed for the aviation and wheelchair industries, the battery features an advanced glass matte AGM technology with liquid (not gelled) electrolyte immobilized in a polyethylene envelope around the grids. From the aircraft application, it features a **completely sealed design that operates in any position, never needs water, is vibration-tolerant and spillproof.** It is **unrestricted for air/UPS shipment.** From the wheelchair application, it features 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 and does not require a low voltage disconnect on its charge control system. It does not force the aids to navigation engineer to disconnect the light early for fear of damaging a battery. By design, these batteries produce less than 2% hydrogen gas during a severe overcharge (4.1% is required for flammability in air).

Self Discharge - Approx. 1% per month  
 Container and Cover - Polypropylene  
 Terminals - Copper Alloy Threaded Inserts  
 5/16" diameter bolt hole  
**Flash arresting vent caps**

Positive Plate - Special Lead Calcium  
 Negative Plate - Lead Calcium  
 Life - In excess of 2000 cycles at 10%  
 800 Cycles at 50% DOD  
 500 Cycles at 80% DOD  
 350 Cycles at 100% DOD

### GENERAL SPECIFICATIONS

MODEL	Nominal Voltage	Weight (lb./kg.)	Length (in/mm)	Width (in/mm)	Height (in/mm)	Ampere-hour Capacity at C/100 Rate.
APB-1234	12V	24/11	7.7/196	5.2/132	6.9/175	38 AMPERE-HOURS
APB-1238	12V	29/13.2	7.7/196	5.2/132	8.5/215	45 AMPERE-HOURS
APB-1295**	12V	65/29.5	12.1/306	6.8/172	9/229	120 AMPERE-HOURS
APB-6100	6V	50/22.7	10.3/261	6.8/172	9.0/229	158 AMPERE-HOURS
APB-300	12V	162/73.6	20.7/526	11/280	10.2/260	305 AMPERE-HOURS

Charging--Limit Voltage to 2.35-2.40 Volts per cell at 25 degrees Celsius.

**\*\* Approved for Zone 1 application's with appropriate battery box.**

