



Aircraft batteries
Maintenance free
sealed lead acid





Global Support

EnerSys is the world's largest industrial battery manufacturer and we are dedicated to being the best. Our strategically located manufacturing plants are efficient and responsive with a culture of continuous improvement and added value for our business partners

EnerSys has an enviable position in technology leadership and with significant investment in research and development we intend to stay at the leading edge in product innovation. Our team of development engineers is driven by the desire to build the best energy solutions and works closely with our customers and suppliers to identify development opportunities. Our bias for rapid innovation means we get new products to the market fast.

EnerSys is dedicated to providing customers with the best solutions and after-sales support for their business, wherever you do business, EnerSys can support your requirements through our vast network of approved maintenance distributors.



EnerSys_Hawker_Maintenance_Free_Sealed_Lead_Acid_Range_June-2012_Version1_EN



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Please refer to the website address for details of your nearest EnerSys office.

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Technical Data

	Nominal Voltage (V)	Noninal Capacity (Ah)	Typical Weight (kg)	Altitude Rating	Qualified to:	Typical Fitments
5Ah	24V	5 Ah (EUR)*	6.5 kg	-457 to 23,336 meters -1,500 to + 70,000 feet	Specific DA Approvals	Boeing 777
10Ah	24V	10Ah (EUR)*	10.5 Kg	-457 to 23,336 meters -1,500 to + 70,000 feet	Specific DA Approvals MIL-B-8565	Learjet 45 / F-18 Hornet / Blackhawk / Seahawk / T-38 Talon / F-177 Nighthawk
		7.5 Ah (US)**				
18Ah	24V	18 Ah (EUR)*	19 Kg	-457 to 23,336 meters -1,500 to + 70,000 feet	Specific DA Approvals MIL-B-8565 EASA ETSO Articles	BAe Hawk / F16 Fighting Falcon / Dassault Rafale / Sea Harrier / Folker F27 / B1-B Lancer
		15 Ah (US)**				
25Ah	24V	25 (EUR)*	27 Kg	-457 to 23,336 meters -1,500 to + 70,000 feet	Specific DA Approvals MIL-B-8565 EASA ETSO Articles	BAe 125 / BAe 146 / Brittan Norman Islander / Harrier AV8-B / Turcano / Merlin EH101 / Jetstream 31
		24 Ah (US)**				
40 Ah	24V	40Ah (EUR)*	40 Kg	-457 to 23,336 meters -1,500 to + 70,000 feet	Specific DA Approvals MIL-B-8565 EASA ETSO Articles	Jetstream 41 / Cessna 208 Caravan / Pilatus PC6, PC7, PC9 / C-130 Hercules
		35 Ah (US)**				

*European Rating - 1 hour to 20V@+20°C (+68°F) ** USA Rating - 1 hour to 18V @ +21°C (+70°F) at end of life

Technology for maximum safety and power



Manufacturing Hawker Maintenance free lead acid aircraft batteries

THE WORLD IS BECOMING
SMALLER. AIRCRAFT TRAVEL
THOUSANDS OF KILOMETRES IN A
MATTER OF HOURS. AIR ROUTES
CONNECT ENTIRE CONTINENTS. A
FAILURE IN THE AIRBORNE ENERGY
SUPPLY SYSTEM CAN RESULT IN
CATASTROPHE. IT IS VITAL THAT
ALL INSTRUMENTS ARE IN
CONSTANT OPERATIONAL
READINESS

The Construction

Hawker maintenance free sealed lead acid batteries are manufactured by EnerSys, the global leader in energy storage solutions. Hawker batteries have been at the forefront of innovation and technical excellence for more than 40 years. They have evolved and advanced to deliver the improved power and performance required by successive generations of aircraft.

Hawker maintenance free sealed lead acid aircraft batteries are designed using proven gas recombination technology and Thin Plate Pure Lead (TPPL) grids to meet the demands of the aviation industry.

- High power
- Long service life
- Low maintenance
- Total reliability

From fixed wing combat aircraft to helicopters, these batteries provide critical power to ensure operational effectiveness. They are essential for the safe operation of commercial aircraft. Whether it's engine starting, back-up power for instruments and communications or emergency systems, these batteries play a vital role. At EnerSys we understand the demands of on-board energy storage and we know what you're looking for in a battery.

Hawker's maintenance free sealed lead acid battery products are classified as non-hazardous and unrestricted for land, sea or air transportation when correctly / adequately packed. This battery needs no maintenance, has no memory effect and doesn't suffer from fading



Aircraft batteries for every application



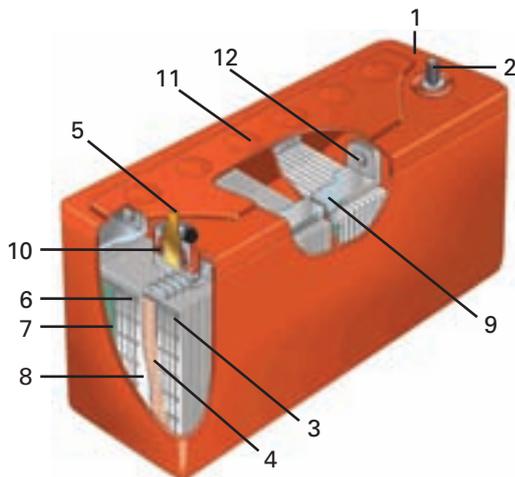
The Battery



Hawkers' maintenance free sealed lead acid battery typically consists of two 12 Volt monoblocs housed inside a battery case. The battery case and lid is manufactured either using stainless steel or glass reinforced plastic (GRP). The two monoblocs are connected in series and to the main connector using highly conductive electrolytic copper tinned laminations. Vent tubes attached to the battery's case allow venting to take place. A main connector on the front of the battery container connects it to the aircraft's electrical system.

The Design

- | | |
|---|---|
| 1. ABS (Acrylonitrile butadiene styrene) case | 8. Highly Porous Absorbed Glass Mat (AGM) Separator |
| 2. Positive Terminal | 9. Cast on Strap |
| 3. Positive Plate | 10. Pillar Seal |
| 4. Positive Paste | 11. Vent Valve Incorporating Flame Arrestor |
| 5. Negative Terminal | 12. Through Wall Inter-Cell Welding |
| 6. Negative Plate | |
| 7. Negative Paste | |



The Advantages

- Dispatched from the manufacturer's factory fully charged.
- Inspection free storage life of 2 years when stored at or under 25°C.
- Completely Sealed and Maintenance Free.
- Fully aerobatic
- Manufactured in an EASA 21 Subpart G accredited facility.
- Long life
- Vents and Thermal Sensors not required
- Easy Commissioning, normally consisting of only a voltage check
- Classified as a non-spillable battery in accordance with ICAO/IATA Packing Instruction 806 – Special Provision A67.UMDG UN No. 2800 Class 8 Exempt

Expertise you can depend on



The Expertise

Hawker has a reputation for unbeatable experience and unrivalled expertise in the manufacture of aircraft batteries. Hawker batteries ensure the utmost reliability for both commercial aircraft and military fighter jets.

Hawker maintenance free sealed lead acid batteries is the result of many years' research into creating a battery that delivers a perfect power supply to all monitoring and control instruments; one that can be relied upon to operate at optimum capacity even under extreme conditions.

The materials used in Hawker batteries are subject to stringent laboratory tests, and every stage of the manufacturing process meets the criteria set out in EASA Part 21 Subpart G and the ISO 9001 quality standard. Finally, the Hawker maintenance free lead acid aircraft batteries comply with the highest requirements of airworthiness as set out by EASA, OEM's and Ministry of Defence.

