

Cyclic-start AGM Batteries

SPECIALIST VEHICLE APPLICATIONS 40Ah - 250Ah



Antares have a range of AGM batteries to allow specialist vehicle designers the option of the benefits of a fully sealed unit, a high current starting battery combined with increased cyclic performance, compared with traditional start batteries.

This range of AGM batteries shares the same ruggedised construction and high performance valves as our cyclic duty GEL alternative.

The AGM should be selected in applications which have high current loads, such as starting, operate in very low temperatures or need extremely fast recharge.

Benefits

- Completely absorbed electrolyte for spillproof design
- Ultra premium sealing valves prevent capacity loss and control pressure
- Fortified posts, straps and welds resist vibration damage and maximise current transfer
- High density oxide provides maximum power per kilo
- High cycling service
- Less than 2% per month self discharge means little deterioration during transport and storage
- 250 quality checks to assure superior performance and long life

What is an AGM Battery?

AGM stands for absorbed glass mat. In a standard flooded lead acid battery, the acid is free to move around the plates. (It can also spill out if the battery becomes damaged). In an AGM battery the electrolyte is immobilised in an absorbent separator- much like blotting paper.

Using this construction the battery designers have struck a balance between the high starting currents available from conventional flooded automotive batteries and the improved cycles available from the Cyclic Duty GEL type.

GEL vs AGM

If you are looking for maximum cyclic performance in an auxiliary battery then the Cyclic Duty GEL is best suited. If your application demands greater power from limited space and weight, possibly at low temperature, such as engine starting from a small battery, you should select the Cyclic-Start AGM.

Rugged Construction

The Antares Cyclic-start AGM is a specialised battery manufactured in a purpose-built factory

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ANTARES
engineering with answers

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alongside our Cyclic Duty GEL range, sharing many components. Most notably the valves, construction methods and quality checks.

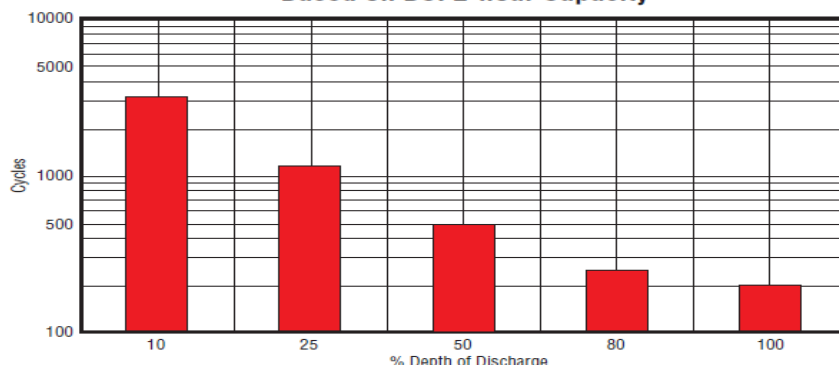
Advanced Valves

Although sealed, a safety valve is provided because in an accidental overcharge condition it will release excess pressure, thereby avoiding an explosion. By using advanced valve technology, slight pressure can be maintained more accurately, which improves the gas recombination process giving longer life but still ensuring safe operation.

Ease of Use

As with the GEL batteries the electrolyte is immobilised. It is non-spillable and therefore can be operated in virtually any position, however installation upside-down is not recommended. Where necessary, usually to reduce height, the

**AGM Cycle Life vs Depth of Discharge at +25°C (77°F)
Based on BCI 2-hour Capacity**



batteries may be mounted on their sides with only a marginal loss of capacity.

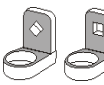
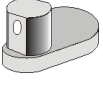
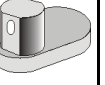
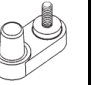



Fast Charging

Charging must be via a correctly set, voltage regulated, temperature compensated charger to achieve maximum life. Antares DC and AC chargers and the Virtual Alternator system all have this built-in.

Safe to Transport

Batteries are explosion proof — classified by IATA, ICAO, and FAA as non-hazardous.

These products meet international environmental standards and conform to EC1994 directive on dangerous substances.

Part Number	66413	66414	66415	66410	66411	66421	66412
Capacity @ 100Hr	35Ah	63Ah	91Ah	100Ah	110Ah	210Ah	250Ah
Capacity @ 20Hr	33.25Ah	55Ah	79Ah	92Ah	105Ah	198Ah	245Ah
Capacity @ 5Hr	29.75Ah	46.5Ah	69.2Ah	78Ah	86Ah	164Ah	197Ah
Engine Starting CCA(-18°C)	200A	350A	525A	580A	800A	1110A	1450A
Length (mm)	196	244	277	326	328	537	530
Width (mm)	130	139	167	167	171	214	279
Height (mm)	169	235	237	240	239	250	244
Weight (kg)	10.5	17	24.0	28	30	61	74
NS=Non spillable IATA, DOT definition, H=handles	H/NS	NS	NS	H/NS	H/NS	H	H
Terminations	BOLT 1/4"	SAE/ BOLT	SAE/ BOLT	OFFSET SAE + STUD	SAE*+ STUD	SAE POST*	SAE POST*
							
Operating Temperature	Fully charged: -40degC to +60degC						
Charging @ 20°C	Charge Voltage 13.8-14.6VDC, @25degC , Float/standby Voltage 13.5 VDC						
Container/cover	Polypropylene						
Plate Alloy	Lead Calcium						
Valve	High performance self sealing valve, 2psi operation						
Posts	Forged terminals and bushings						

*to convert SAE post to 8mm stud use: – Positive post clamp **64570**, Negative post clamp **64571**

Due to our policy of continuous product development, specifications are subject to change without notice

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