



Absolute Power & Safety

ABXAGM™



ATLASBX™
THE POWER COMPANY

ABXAGM Technology

AGM (Absorbent Glass Mat) Separator

- Minimized electric resistance, half of flooded battery
 - Provide outstanding cranking power, due to the enhanced ionic transfer
- No plate movement and completely spill and leak-proof
 - Installation may be at any angle position, even horizontally

X-FRAME

- Full Frame with Stamped Grid Technology
 - Longer Life, Stabler Starting Power, and Stronger durability

UMF Ultra Micro Fiber

- Addition of fine fiber to active material
 - Increase performance rate of active material

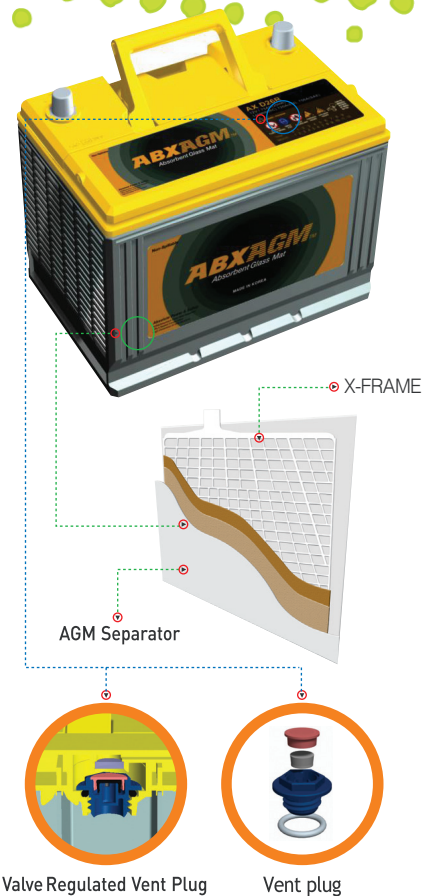
HDA High Density Active-Material

- High pressure of glass mat acting against the plate
 - Prevent from shedding of active material and as a result, ensure longer life

VRLA Sealed Construction advanced gas recombination Tech.

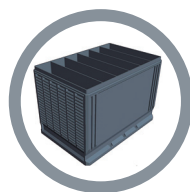
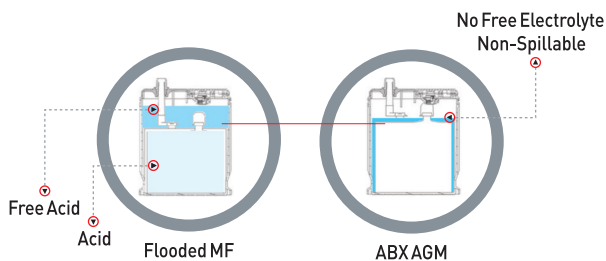
Valve Regulated Vent plug

- Enable to stable cranking power
- Provide constant partial pressure in each cell
- 100% leak-proof and safe handling

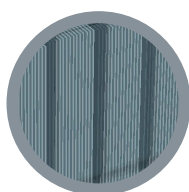


Valve Regulated Vent Plug

Vent plug



New Advanced Material



High Pressed Elements

High Dimension of Grid Structure

- Provide more reaction surface area and increase of energy density

Starved Electrolyte Structure

- Increase of energy density, due to no free electrolyte

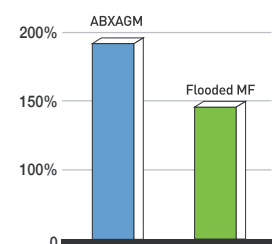
Reinforced Case Design

- Protect battery from vibration
- Provide consistent element compression

Benefits

High performance	Long life
<ul style="list-style-type: none"> - Excellent high rate discharge - Powerful cycle performance by high density active material 	<ul style="list-style-type: none"> - Full Frame Stamped Grid with Ca-Sn alloy - Electrolyte density is stable - 2 times greater cycling ability over flooded moderate discharge levels

※ Application: ISS, Marine & RV (Dual Purpose-Starting & Deep Cycle)
The most prestigious vehicles for extreme power demands



[Deep cycle life : SAE J2185]

Technologies & Benefits : AGM Batteries for Idling Stop-Start (Micro Hybrid Vehicles)

ISS (Idling Stop - Start) Technology : Micro Hybrid Vehicles

With Stop-Start Vehicle, when the car comes to a stop in a traffic jam or at a red light and the gear of transmission is put neutral, the engine is automatically turn off. As soon as the driver put the "D" mode at the auto transmission (first gear at the manual transmission), the engine restarts automatically.

The Stop-Start technology offers reducing fuel consumption and CO₂ emissions.

Benefits of AGM for ISS

Excellent starting power

- Superior starting power, even at lower temperatures
- Extremely minimal electric resistance, causing a quick reaction
- More reaction surface area increasing energy density at the same size flooded batteries

The Extreme Durability

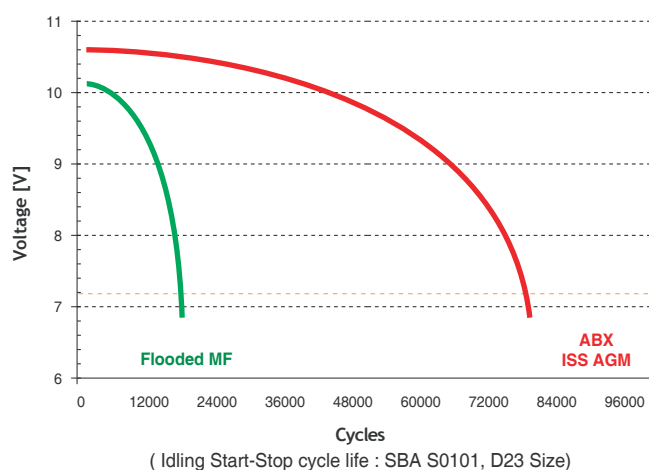
- Higher energy to restart the car
- 4 times the longest cycle life than flooded MF batteries
- High charge acceptance

Safety and Easy handling

- 100% leak & spill-proof 180°
- Vibration resistance
- Non-hazardous battery classification for land, sea, and air traffic

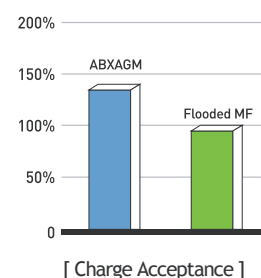
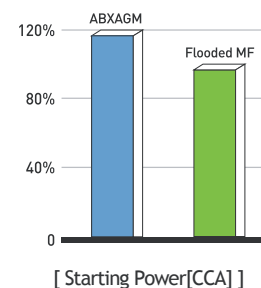


No Leakage (Completely leak-proof)



Comparison of the AGM and Flooded MF

Characteristics		ISS	Starting
		AGM	Flooded MF
Main Application	Engine Stop-Start	○	X
	Regenerative Braking	○	X
Battery Technology	Enhanced Plate	○	X
	AGM Separator	○	X
	Gas Recombination	○	X
	Plate-group Compression	High	None
Performance	Starting Power	120%	100%
	Charge Acceptance	140%	100%
Cycle Life	ISS Mode (SBA S0101)	400%	100%
Safety	Handling	100% leak-proof (Spill-proof to 180°)	Spill-proof to 45°
	Maintenance Free	Best	Very Good
Environment Friendly	Fuel Efficiency	5% ~ 10%	None
	CO ₂ Savings	Best	Standard



Specification

Idling Stop-Start(Micro Hybrid Vehicles) : The most prestigious vehicles



GROUP NO.	TYPE NO.	CAPACITY (20HR)	CCA (EN)	Dimension(mm)				Layout	Hold - Down	Terminal	Equivalent Size (BCI)
				L	W	H	TH				
L3	AX 570 760	70	760	277	174	190	190	0	B13	STANDARD	G48
L4	AX 580 800	80	800	314	174	190	190	0	B13	STANDARD	G94R
L5	AX 595 850	95	850	352	174	190	190	0	B13	STANDARD	G49

Dual Purpose(Start & Deep cycle service) : The most prestigious vehicles & Semi-Traction(Marine & RV)



GROUP NO.	TYPE NO.	CAPACITY (20HR)	CCA (SAE)	Dimension(mm)				Layout	Hold - Down	Terminal	Equivalent Size (BCI)
				L	W	H	TH				
D26	AX D26R	75	720	260	172	200	220	1	B1	STANDARD *	G24
D26	AX D26L	75	720	260	172	200	220	0	B1	STANDARD *	G24R
C31	AX 31-800	90	800	330	172	218	242	2		STUD	

* D26 : MARINE TWIN is available

Layout	Hold Down	Terminal		
		STANDARD	MARINE TWIN	STUD
0 	B1 0.5mm on long sides only		 5/16" -18 THREADS	 3/8"-16 THREADS
1 	B13 5 notchs 10.5mm on all four sides			
2 				

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