

AGM VRLA battery, more commonly known as sealed maintenance free battery, is from a family of lead-acid rechargeable battery which works on Gas Recombination principle that will be controlled by pre-determined vent valve. They do not require special ventilation; common cross ventilation is enough for air circulation / exchanges. Can be mounted in any orientation (recommended to use in vertical for better access) based on its leak proof design, and do not require constant maintenance. The Amaron Sleek batteries are Front Access Terminal Batteries.

Battery Construction:

Component	Positive Plate	Negative Plate	Container	Cover	Safety Valve	Terminal	Separator	Electrolyte
Raw Material	Hybrid (MFX) alloy	Lead Calcium Alloy	Polypropylene co-polymer	Polypropylene co-polymer	Rubber	M6 Front	Absorbent Glass Mat	Sulphuric Acid

General Features:

- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding
- Complies to Air Transport Requirement-IATA/ICAO special provision A67
- CE marking for Conformite Europeene, ratified by Underwriters Laboratories and UL approved
- Classified as Non Hazardous Cargo and complies with requirements of IMDG.
- Designed float life of 12+ Years or Cyclic life of 1800+ Cycles at 20% DOD at 27° C
- Completely recyclable – Lead, Plastic and Sulphuric acid can be recycled and reused.
- Generally complies to IEC 60896-21/22:2004 Standards
- Maintenance free operation
- Internal resistance: 5.19mΩ for a fully charged battery at 27° C
- Low self-discharge of <3% per month at 27° C
- Supplied in 100% factory charged condition

Performance Characteristics:

- Nominal Capacity: 100Ah at C10 rate to 1.75ECV (or) 1.80ECV at 27° C
- Charge Method: Constant Potential Current Limit Charge
 Float Charge..... 13.5V per module @27° C
 Boost Charge..... 13.8V per module @ 27° C
- Maximum charging current..... 25A

Amperes per cell @ 27° C*

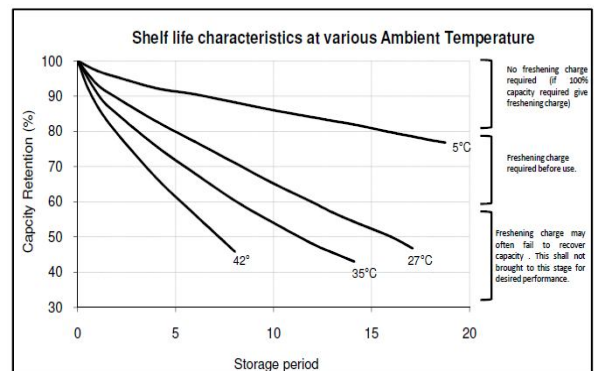
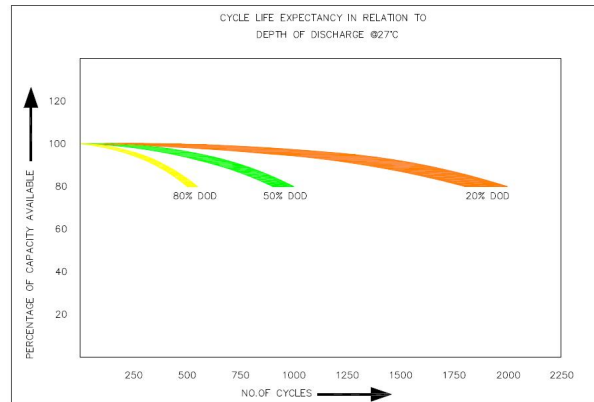
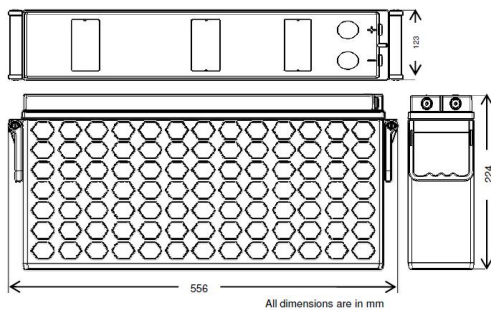
End Cell Voltage/cell	5 min	10 min	15min	30min	1hr	3hr	5hr	10hr
1.75**	285.7	200.0	158.7	98.0	61.0	27.0	17.5	10.0
1.80**	277.8	196.1	153.8	96.2	59.5	26.1	17.2	10.0
1.85	250.0	178.6	144.9	89.3	56.5	25.3	16.4	9.2
1.90	222.2	161.3	133.3	77.5	52.1	23.3	15.0	8.4

Watts per cell @ 27° C*

End Cell Voltage/cell	5 min	10 min	15min	30min	1hr	3hr	5hr	10hr
1.75**	513.1	362.8	290.8	181.3	114.6	52.1	34.1	19.3
1.80**	494.6	351.8	279.3	174.3	108.4	49.0	32.4	19.3
1.85	471.1	333.8	263.6	168.2	106.8	48.9	32.0	17.7
1.90	427.9	307.1	240.9	147.3	99.4	45.0	29.3	16.3

* The values declared may be subject to change with respect to ongoing continuous product improvement
 **Batteries may have the initial capacity range between 90 to 95% on the rated capacity when delivered.
 This will raise to 100% capacity after few charge / discharge cycles as per the IEEE - 485 clause no: 6.2.4 snd

Description	Cell level
Nominal Voltage [v]	12
Dimensions [± 3mm] (W*D*H)	123 x 556 x 224
Weight [Kg] (Approx.)	36
Ah Efficiency	>95%
Wh Efficiency	>85%
Operating temp range	-40° C to +60° C
Temperature compensation	±3 mV/°C/Cell



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 **Due to ongoing improvement the specifications are subjected to modification without prior notice.

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