

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. 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 True Front Access Terminal Batteries.

Battery Construction:

| Positive Plate | Negative Plate | Container & Cover | Separator | Safety Valve | Terminal |
|----------------|--------------------|--|---------------------|---|----------|
| Hybrid Alloy | Lead Calcium Alloy | Flame Retardant Polypropylene Co-Polymer (FR-PPCP) | Absorbent Glass Mat | Self-Resealing, Pressure Regulated, Explosion proof | M6 Front |

General Features:

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of >98% 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
- Generally complies to IEC 60896-21/22:2004 Standards
- Well suitable for standard 23" racks
- Maintenance free operation
- Internal resistance: Approx. 5.19mΩ for a fully charged battery at 27°C
- Low self-discharge of <4% 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..... 30.0 A

Amperes @ 27°C**

| ECV/cell | 15min | 30min | 1hr | 2hrs | 3hr | 4hr | 5hr | 6hr | 8hr | 10hr |
|----------|-------|-------|------|------|------|------|------|------|------|------|
| 1.75 | 155.5 | 96.0 | 59.8 | 35.1 | 26.5 | 21.1 | 17.2 | 14.9 | 11.9 | 10.0 |
| 1.80 | 150.7 | 94.3 | 58.3 | 35.0 | 25.6 | 20.4 | 16.9 | 14.6 | 11.8 | 10.0 |
| 1.85 | 142.0 | 87.5 | 55.4 | 34.0 | 24.8 | 19.8 | 16.1 | 13.8 | 10.9 | 9.0 |
| 1.90 | 130.6 | 76.0 | 51.1 | 31.1 | 22.8 | 18.3 | 14.7 | 12.7 | 10.1 | 8.2 |

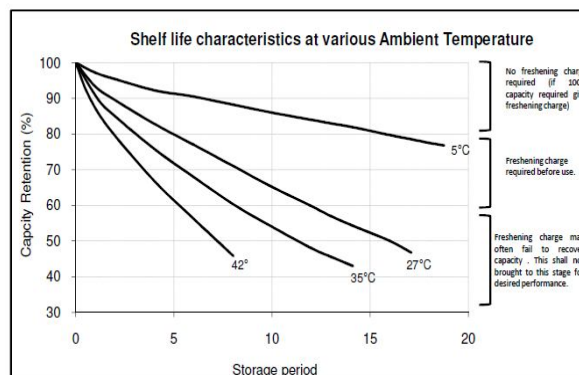
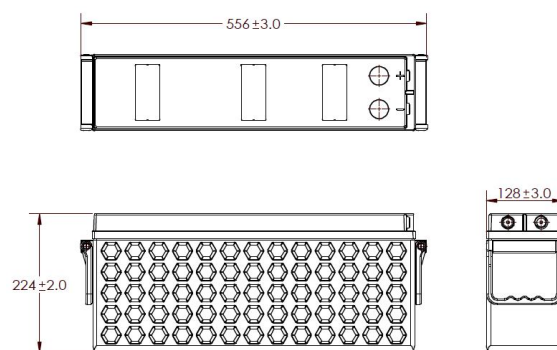
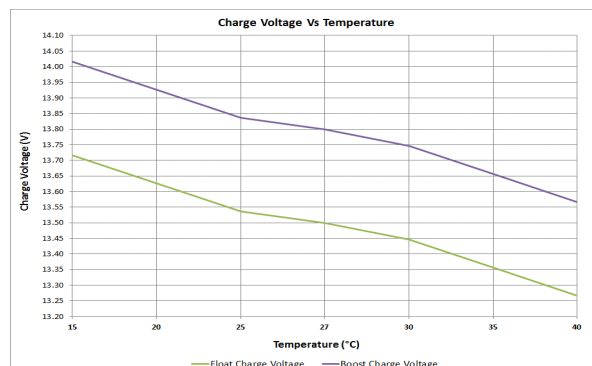
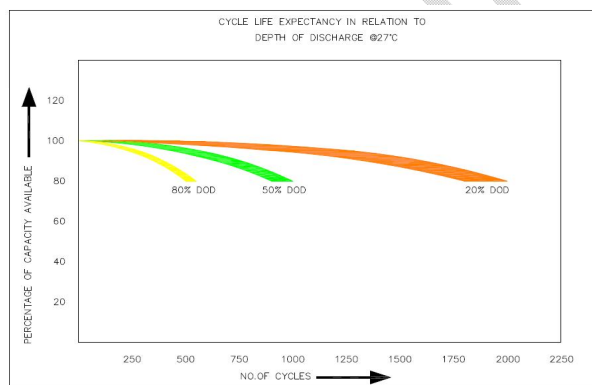
Watts per cell @ 27°C**

| ECV/cell | 15min | 30min | 1hr | 2hrs | 3hr | 4hr | 5hr | 6hr | 8hr | 10hr |
|----------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.75 | 285.0 | 177.7 | 112.3 | 67.1 | 51.1 | 40.8 | 33.4 | 29.0 | 23.1 | 18.9 |
| 1.80 | 273.7 | 170.8 | 106.2 | 65.0 | 48.0 | 38.3 | 31.8 | 27.5 | 21.9 | 18.9 |
| 1.85 | 258.3 | 164.8 | 104.7 | 62.5 | 46.1 | 37.0 | 31.4 | 26.8 | 21.1 | 17.3 |
| 1.90 | 236.1 | 144.4 | 97.4 | 60.0 | 44.1 | 35.7 | 28.7 | 24.8 | 19.6 | 16.0 |

| Description | Module level |
|--------------------------|----------------------|
| Nominal Voltage [v] | 12 |
| Dimensions [W*D*H] | (128 x 556 x 224) mm |
| Weight [Kgs] | 36 ± 3% |
| Ah Efficiency | >95% |
| Wh Efficiency | >85% |
| Operating temp range* | -20°C to +60°C |
| Temperature compensation | ±18 mV/°C/Module |

* Peak temperature for shorter duration

** 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 may raise to 100% capacity after few charge / discharge cycles as per the IEEE - 485 clause no: 6.2.4 std



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ARBL/AE/EXP/FTA/100Ah; Jun '2017, Rev3

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