

AMARON SOLAR

AGM VLRA Series

12ASMF100

Solar systems are the most demanding applications for the battery and the correct choice of battery is fundamental to the integrity of the entire system. Batteries are subjected to high and low temperatures, unpredictable charging, daily cycling as well as potentially partial states of charges. The selection of the right battery for the right application is of utmost importance in order to maximize the battery life. Sensing the need of this enduring and reliable source of power, Amara Raja not only offers the complete range of solar batteries available in the market but also provides expert advice on the choice of battery to suit your particular application.

Presenting Amaron Solar batteries for solar application is built to perform and fail-safe, fool-proof battery technology produced & tested in our premier manufacturing facility. Built to the highest technical competence in its class and Amara Raja's commitment to bring the best of technology.



SPECIFICATIONS

Nominal Voltage	12V
Rated Capacity	100Ah / C ₂₀ / 1.75VPC / 27°C
Dimensions (±2mm)	Length 393mm (15.47 in.)
	Width 173mm (6.81 in.)
	Total Height 221mm (8.70 in.)
Approx. Weight	32.5 Kg (71.65 lbs)
Terminal	M8 x 25mm Copper terminal
Case Material	Polypropylene Co-polymer (PPCP)
Internal resistance (as per IEC)	Approx. 5.60 mΩ for a fully charged battery (27°C)
Short circuit current (as per IEC)	2220 A
Operating temperature range	-20°C to +50°C (50 to 60°C for shorter duration)
Self-discharge	< 4% per month at 27°C

RECHARGE METHOD

Charge Provision	Charge Voltage @ 27°C	Min. Charging Current (Amps)
Dual Mode Charge:		
Float Charge setting	13.5 ± 0.1V	0.1C of rated Ah
Boost Charge setting	13.9 ± 0.1V	0.1C of rated Ah
Single Mode Charge:		
Fixed Voltage Charge	13.7 ± 0.1V	0.1C of rated Ah
Over Cut-off Voltage	14.2V	
Under Cut-off Voltage	10.8V	

PERFORMANCE

- Robust, safe and reliable
- Suitable for PSOC and deep discharge
- Unique heavy duty corrosion-resistant alloy for positive grids to increase cyclic life in tropical environments
- Radgrid™ profile providing lower internal resistance and performance
- Instacharge™, a patented paste recipe for excellent charge acceptance
- Low self-discharge rate ensures high charge retention
- Design float life of 10 years
- Clean and sleek looks
- Higher AH and WH efficiency
- Longer service life

QUALITY EDGE

- ISO 9001: 2015 certified
- ISO 14001: 2015 certification signifying the environmental consciousness
- OHSAS 18001: 2007 certified
- Implementation of Kaizen, Six Sigma programs

PRODUCT APPROVALS

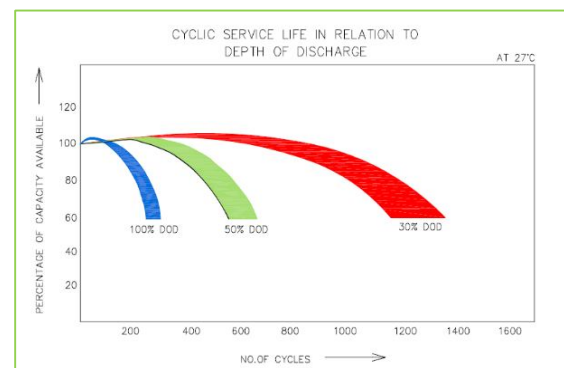
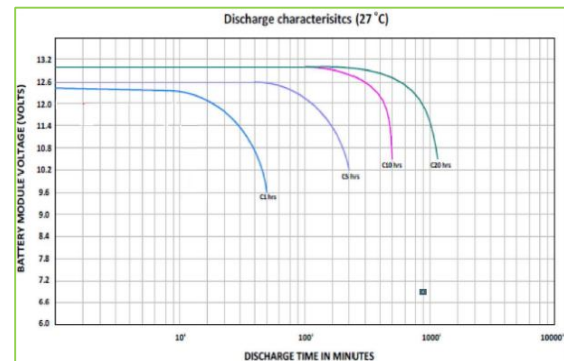
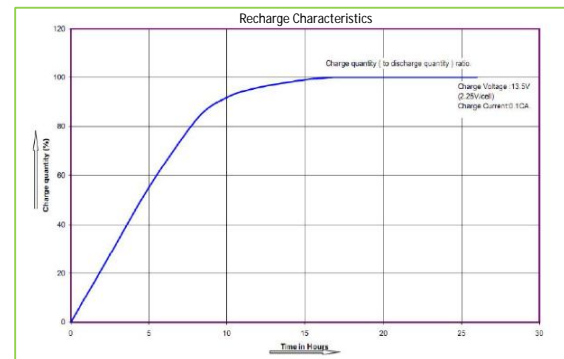
- Conforms to IEC 60896
- Conforms to IEC 61427
- Conforms to IS 15549 & IS 16220
- Conforms to JIS C 8702

APPLICATIONS

- Solar Home Lighting
- Solar Street Lighting & Traffic lights
- Roof-top Solar & Hybrid power packs
- Rural Electrification
- Off-shore platforms
- Solar Lantern



- Navigational Aids
- Telecommunications
- Railways & Defence
- Power plants & Substations
- Corporate Establishments
- Banks & IT parks



AMARA RAJA BATTERIES LIMITED

• **CORPORATE OPERATIONS OFFICE:**
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• **MANUFACTURING ADDRESS:**
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