



AMARA RAJA
Gotta be a better way

Captivating Solar. Rendering Power



DEEP CYCLE | MAINTENANCE-FREE | LOW SELF-DISCHARGE

AMARON solar
POWER.FOREVER



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Gotta be a better way

Amara Raja Batteries Ltd., (ARBL) is the flagship company of the Amara Raja Group and is a pioneer and largest manufacturer of Sealed Maintenance Free – Valve Regulated Lead Acid (SMF-VRLA) Batteries in the Indian Ocean Rim. Established 3 decades ago, Amara Raja proved itself as a technology leader and reigns as number 1 among the top ten stationary battery manufacturers in the world. Amara Raja enjoys a dominant status in the standby batteries across various sectors like UPS, Telecom, Automotive, Railways, Home, Solar.

- 800 acres of integrated battery manufacturing complex
- Largest manufacturing range : 7Ah to 6000Ah (scalable)
- Strong technology base with past collaboration with GNB USA and a 20 year vibrant JV with Johnson Controls Inc USA
- ARBL powers more than 60% of Indian Telecom towers, and every 3rd Indian car is powered by Amaron
- World's Largest 38MWhr Lead Acid (AGMVRLA - ESS) installation powering the Universities in Nigeria
- Prestigious solar installations viz powering the Taj Mahal, a wonder of the world, providing solar power backup in many power-starved countries
- International Sales operations in Indonesia, Nigeria, UAE and partner network in over 35 countries



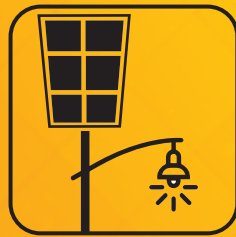


SMF Range:
12V-18Ah to 200Ah

MAJOR APPLICATION



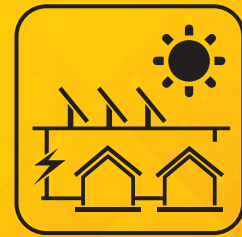
Solar
Home Lighting



Solar
Street Lighting



Rural
Electrification



Solar-Powered
Applications

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 & low temperatures, opportunity charging and daily cycling under PSOC (Partial State of Charge). The selection of 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 but also provides expert advice on the choice of battery to suit your particular application.

Presenting Amaron Solar, the stationary standby SMF battery for Solar applications which is built to perform. In short, the lifeline to your Solar applications.

Amaron Solar is a product of reliability with fool-proof battery technology, produced and tested in our state-of-art manufacturing facility. Built to the highest technical competence in its class, the Amaron Solar is an example of Amara Raja's commitment in bringing the best of technology to your table.

FEATURES:

Radgrid™ Profile:

- Increases conductivity, offers lower internal resistance, supporting opportunity charging and better discharge performance

Hi Dense AGM Separator:

- Ensures superior compression characteristics which leads to prolonged life
- Design float life of 10+ years

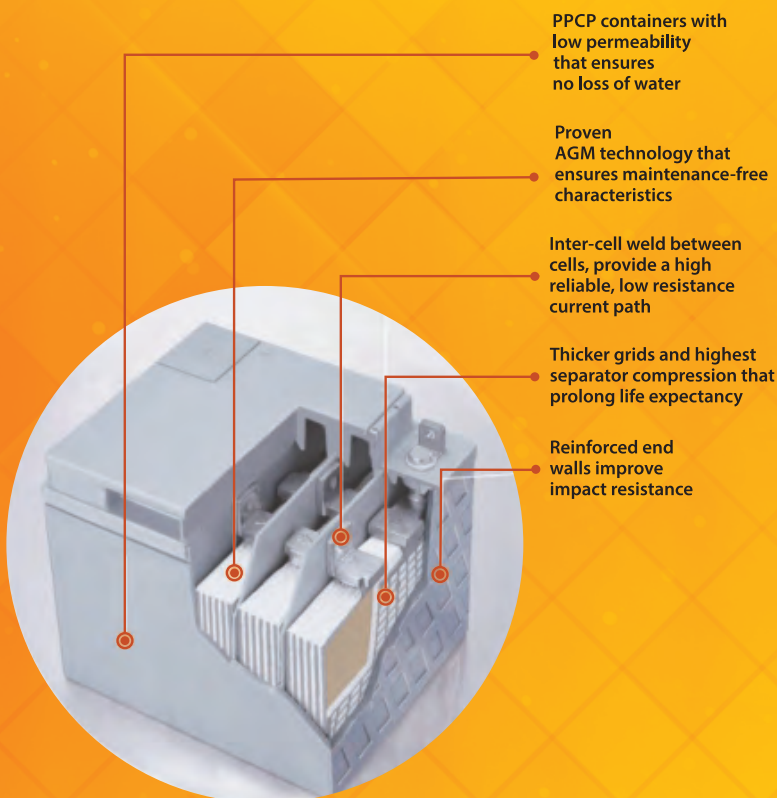
Instacharge™

- A patented paste recipe for excellent charge acceptance which helps in quicker recharge
- Unique pasting process ensures low corrosion making it suitable for PSOC operations
- Lower energy consumption (High charge acceptance) due to higher Ah and Wh efficiency

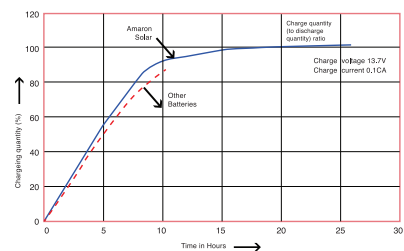
Corrosion resistant alloy:

- Unique heavy-duty corrosion-resistant alloy ensures low corrosion which leads to increase in cyclic life

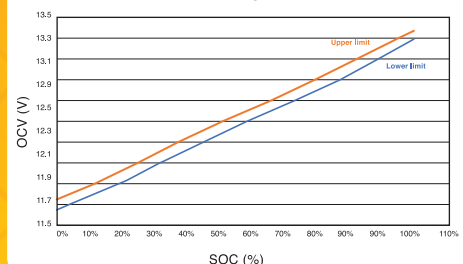
CUT SECTION OF SMF BATTERY:



Recharge Characteristic Curve:



Open Circuit Voltage vs % of SOC:



SOLAR SMF VRLA BATTERIES TECHNICAL SPECIFICATIONS:

| Model | Nominal Voltage (V) | Rated capacity @ C20 at 27°C to 1.75ECV (AH) | Length ± 2 mm | Width ± 2 mm | Total Height ± 2 mm | Weight in Kgs (±5%) |
|-----------|---------------------|--|---------------|--------------|---------------------|---------------------|
| 12ASMF026 | 12V | 26Ah | 167 | 126 | 175 | 9.0 |
| 12ASMF042 | 12V | 42Ah | 199 | 167 | 175 | 14.0 |
| 12ASMF065 | 12V | 65Ah | 351 | 167 | 175 | 20.0 |
| 12ASMF075 | 12V | 75Ah | 351 | 167 | 175 | 23.0 |
| 12ASMF100 | 12V | 100Ah | 393 | 173 | 221 | 32.5 |
| 12ASMF120 | 12V | 120Ah | 393 | 173 | 240 | 36.6 |
| 12ASMF130 | 12V | 130Ah | 445 | 168 | 247 | 42.0 |
| 12ASMF150 | 12V | 150Ah | 453 | 173 | 251 | 45.0 |
| 12ASMF160 | 12V | 160Ah | 445 | 168 | 283 | 48.3 |
| 12ASMF200 | 12V | 200Ah | 556 | 186 | 263 | 61.0 |

>> Also available in 18Ah, 84Ah

To enhance the life of battery the design parameters of Panel the and operating environments should meet the Charge Balance at more than or equal to 125% (I.e ratio of Kwh in and Kwh out)

CHARGING CHARACTERISTICS:

| Charge provision | Charging voltage at 27°C | Minimum charging current (Amps) |
|-----------------------|--------------------------|---------------------------------|
| Float Charge | 13.5 ± 0.1V | 0.1C |
| Boost Charge | 13.9 ± 0.1V | 0.1C |
| Over Cut-off Voltage | 14.2V | --- |
| Under Cut-off Voltage | 10.8V | --- |

* Product is specifically designed for solar application

PRODUCT COMPLIANCE:

Batteries generally conform to:

IS 15549 : 2005

IS 16270 : 2014

IEC 61427 : 2005

IEC 60896-21&22: 2004



QUALITY EDGE

ISO 9001 : 2015

ISO 14001 : 2015

ISO 45001 : 2018

Continuous improvement through

Six Sigma, 5S, TQM



Amara Raja Batteries Limited

Corporate Operations Office:

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Registered Office & Manufacturing Facility-1

Unit-I, Karakambadi - 517 520, Tirupati,
Andhra Pradesh, INDIA

Manufacturing Facility-2

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Overseas Marketing Offices

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Contains Lead Please
handover at approved
waste handling point



Completely
Recyclable



Protect eyes
from Electrolyte



Electrical
Hazard



Read
Instructions