



भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)
BUREAU OF INDIAN STANDARDS
(Ministry of Consumer Affairs, Food & Public Distribution, Government of India)

SPEED POST

हमारा संदर्भ : RJBO/CM/L- 7600188215

दिनांक : 4-3-2025

Subject: Grant of BIS Product Certification Licence No. – 7600188215 as per IS 302 : PART 2 : SEC 76:1999.

M/S J K AUTOMATION

SHED NO.2/30, PLOT NO.13, SAMRAT IND.AREA, NANDAVAN ESTATE,
GONDAL ROAD, RAJKOT, GUJARAT- 360004

Dear Sir,

1. With reference to your application, we are pleased to inform you that the Certification Marks Licence has been granted to you to use the Standard Mark in respect of the followings:

Product: Safety of Household and Similar Electrical Appliances - Part 2 : Particular Requirements - Section 76 : Electric Fence Energize

Grade/Class/Type/Variety

Type of energizer: Battery operated (Type III), rated input voltage 12 V DC 400mA, rated output 10000V max, Energy per impulse 5 J, Class II, IPX4

As per IS No: **IS 302 : PART 2 : SEC 76:1999**

2. The number assigned to this Licence is **CM/L- 7600188215** which has been made operative from **06.02.2025** and is valid upto **05.02.2026** the licence number shall invariably be referred to in your future correspondence.

3. The licence is granted on the explicit condition that you shall mark entire production under scope of licence with Standard Mark and maintain conformity to the relevant Indian Standards. Accordingly, you shall cover the entire production under scope of licence with Standard Mark and maintain conformity to the relevant Indian Standards. In addition, you shall display the BIS product certification licence held by you prominently at your premises and also mention the BIS product certification licence held by you in your commercial advertisements.

4. According to Sub-Paragraph (1) & (3) of Paragraph 5 of Scheme-I of Schedule-II under Bureau of Indian Standards (Conformity Assessment) Regulations, 2018, the annual licence fee of Rs.1000.00 and the marking fee as notified is payable by you with effect from **06.02.2025** for the period of validity of the licence in advance.

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5. Minimum Marking fee stipulated under of Scheme-I of BIS (Conformity Assessment) Regulations, 2018 is payable by you regardless of the fact whether you actually mark your product or not with the Standard Mark. Our Receipt No. **AA76PC2024001651** dated **21.12.2024** for the licence fee and the minimum marking fee for the first operative period is already enclosed.
6. This advance minimum marking fee will be carried over to the next year on every renewal. The actual marking fee calculated on the unit rate on the production marked or the minimum marking fee, whichever is higher, shall be payable by you at the time of renewal.
7. With a view to streamlining the reporting of quantity marked, calculation and collection of marking fee on the unit rate basis, fees will be calculated on the production marked during the first nine months of operation of the licence at the time of first renewal, and on the production marked during twelve months comprising the last three months of the previous operative year and the first nine months of the current operative year, at the time of the second and subsequent renewals. In case the licence expires, the entire production marked till the expiry date shall be taken into account for calculating the marking fee payable.
8. The Scheme of Inspection and Testing (SIT) submitted by you and agreed by BIS or the Scheme of Inspection and Testing as specified by BIS will have to be implemented by your organization strictly and completely. This supervision of the operation of the Scheme shall be done by a person responsible for the quality control function in your organization. Kindly inform us the name and designation of the person who will be held responsible for the operation and maintenance of the Scheme. Any future change in this respect will have to be communicated by you to us as and when these take place.
9. We are enclosing a sheet giving the preferred dimensions of the Standard Mark to enable you to prepare the designs of the Standard Mark for marking the above product Photographic reduction in any size is permissible. This will ensure the relative proportions of the different dimensions maintained. Preferred dimensions be used as far as possible.
10. On commencement of marking of your product for which you are licensed, you may advertise your product with Standard Mark in various media only during the validity of your licence. The use of Standard Mark on letterheads and publicity literature will be permitted only on receipt of your assurance that in the event of cancellation or lapsing of your licence, the Standard Mark on your letterheads, publicity literatures etc. will be destroyed/obliterated.
11. This licence is granted for your manufacturing premises Situate **SHED NO.2/30, PLOT NO.13, SAMRAT IND.AREA, NANDAVAN ESTATE, GONDAL ROAD, RAJKOT, GUJARAT- 360004** Privileges under the licence shall not be exercised by any other firm company / factory etc. This licence is not transferable in the event of shifting the manufacturing and testing equipment from the licensed premises to some other place, use of Standard Mark shall be stopped till the new premises are inspected and found to be satisfactory by BIS in respect of manufacturing and testing facilities available there and the address of the new premises is endorsed in the licence.
12. You are also advised to make yourself and other employees in your organization aware about the provisions of the BIS Act, 2016 and Rules and Regulations framed there under especially the implications in case of any intentional or unintentional non-adherence.

Thanking you,

Yours faithfully,


(पारिजात शुक्ला)
वैज्ञानिक ई एवं प्रमुख

Encl: As above



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BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution,
Govt. of India)

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वेबसाइट/Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: REGISTRATION /CRS-2023-3816/R-72009130

Dated: 2025-10-02
02:10:18

RENEWAL ID : 36100

Subject : RENEWAL OF LICENCE R-72009130 AS PER IS 14286 : 2010/ IEC 61215 : 2005, IS/IEC 61730 (PART 1) : 2004 & IS/IEC 61730 (PART 2) : 2004

SHIVAM PHOTOVOLTAICS PRIVATE LIMITED
101 NEW AHMEDABAD INDUSTRIAL ESTATE, NEAR ZYDUS RESEARCH CENTER, VILLAGE MORAIYA, TALUKA
SANAND, DISTRICT AHMEDABAD, GUJARAT.
GUJARAT, India, 382213



Dear Sir/Madam,

This has reference to your BIS Self Declaration of Conformity Registration No. R-72009130, held by you, for CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES (Si wafer based) which was valid upto **14-09-2025**.

As you are aware that renewal of your Registration was deferred due to the non-receipt of renewal application & fees. In view of receipt of renewal application & fees on 02-10-2025, Competent Authority of BIS has decided to renew your above referred Registration for 2 years i.e. from 15-09-2025 to 14-09-2027. It has also been decided to allow you to resume marking on your article as per marking guidelines of the above referred Registration with immediate effect.

It may please be noted that your registration shall *expire* at the end of the above mentioned period. You are, therefore, requested to send your renewal application along with fees for its renewal within three month before the expiry of the Registration.

Thanking you.

Yours faithfully,

Registration Department
Bureau of Indian Standards,
9, Bahadur Shah Zafar Marg,
New Delhi-110002.
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
To verify authentication of letter, kindly scan the QR code on this letter.



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**AMARA RAJA BATTERIES LTD., TESTING AND
CALIBRATION LABORATORY**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

KARAKAMBADI RENIGUNTA KADAPA ROAD, TIRUPATI, CHITTOOR, ANDHRA PRADESH, INDIA

in the field of

TESTING

Certificate Number: TC-8376

Issue Date: 01/03/2024

Valid Until:

29/02/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : AMARA RAJA BATTERIES LIMITED

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer

Technical Datasheet

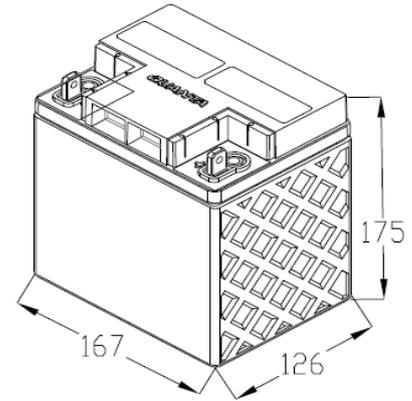
DOC REF: IAE/TDS-AS/2018-19; Rev: 00



IS 15549 & JIS C 8702

Battery Particulars

- Battery Type : MF-VRLA*
- Battery Rating to 10.5 EMV @ 27°C : 12V-26AH @ C₂₀
- Model No. : 12ASMF026
- Volts/Module : 12 Volts
- Module dimensions (W x D x H) in mm : (167 x 126 x 175) ±2mm
- Module weight : 9.0Kgs. ± 5%
- * Maintenance Free Valve Regulated Lead Acid



Product Details

- AH efficiency : Above 95%
- WH efficiency : Above 85%
- Type of +ve & -ve plates : Flat pasted
- Type of separator : Highly absorbent Micro porous spun glass matrix (AGM)
- Material of container : Polypropylene co-polymer (PPCP)
- Terminal Torque (M5 Terminal) : 5-6Nm recommended
- Operating temp. range of battery : -20°C to 50°C (50-60°C for shorter durations)
- Self-discharge per week : < 1% of rated capacity at 27°C
- Recommended Max period of storage : 3 months from the date of dispatch before first use and battery should be stored in a covered area at 27°C

Applicable Standards

- Batteries generally conforms to : IS 15549 & JIS C 8702

Electrical Parameters

- Charge Regime : Batteries shall be charged in constant potential mode with sufficient charging current from the charging source.

Dual Mode charge	Float Voltage Cyclic Voltage	The charging facility should have auto float changeover and charge mode facilities with the below recommended voltage settings 13.50 ± 0.1V volts per module @ 27°C 13.90 ± 0.1V volts per module @ 27°C
Single mode charge	Fixed Charging Voltage	The charging facility should have the fixed charging voltage 13.70 ± 0.1V volts per module @ 27°C
Battery charging		Excluding the load current, the battery charging source shall have minimum wattage of 1.25 times the battery rating Ex: 32.5Watts/ solar module shall be available for a 12V-26Ah Battery) If charging is done by a charger, the battery charging current limit shall be min. 10% to max.20% of the battery capacity.
Voltage Ripple allowable		< 2% of the RMS value
Over Voltage Cutoff		14.2V / per module in the charge controller
Under Voltage Cutoff		10.8V/ per module in the charge controller
Recommended Voltage Compensation		For every 1°C raise in temperature reduce the charge voltage by 18mV/module & vice versa



Authorized signature

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