

# EXIDE

**SOLAR**  
BATTERIES  
EXPERIENCE  
THE EXCELLENCE



Over the last decades, the focus on renewable energy usage to meet the growing power demand of the country has increased manifold. There is a need to explore renewable energy resources to reduce the carbon emission, rapid depletion of fossil fuels resulting global warming. It is considered to be the efficient solution to vast stretches of remote areas where mains power is yet to reach in an economic manner. The success of SPV system largely depends on the efficiency of its storage. Storage of solar power is a challenge as the electricity produced from solar panels is intermittent. Exide solar batteries are specially designed to suit the rigors of daily charge-discharge cycle at an high ambient temperature, work efficiently in Partial State of Charge (PSOC) condition where the battery will operate successfully even in consecutive non-sunny days and recharged at a fast pace. The performance of a renewable energy system depends on the design, quality, efficiency, durability and reliability of its equipment. In line with the above scenario, Exide Industries Limited, the leader in Lead Acid Battery in India for the last 65 years is proud to present the widest range of Lead Acid Batteries manufactured with TORR Tubular Technology which stands for reliable and consistent performance for Solar Photovoltaic and other Renewable Energy based applications.



## EXIDE SOLATUBULAR<sup>TM</sup> AND SOLARBLITZ<sup>TM</sup>

### FEATURES :

-  Batteries are made of time tested **Exide Torr Tubular Positive Plates**

---

-  Available in **12V, 6V & 2V** range

---

-  Ultra **Low Maintenance**

---

-  Suitable for **frequent cyclic duty**

---

-  Superior **Cycle life**

---

-  Supplied in **factory charged condition** - ensures optimal quality and ready to use

---

-  Service life **comparable** with the **best of the international brands.**

---

-  SOLATUBULAR<sup>®</sup> & SOLARBLITZ<sup>®</sup> 12V LMS ranges meet **IS 13369 specification with latest amendments**

---

-  SOLATUBULAR<sup>®</sup> 2V LMXT ranges meet **IS 1651 specification with latest amendments**



Solatubular<sup>®</sup> 12V & 6V Battery



Solatubular<sup>®</sup>  
LMXT - 2V Cells



SolarBlitz<sup>®</sup> 12V Battery



## ADD ON FEATURES :



6V mono-blocks can be supplied with **MS Cabinet** (fitted suitable exhaust system) or **MS Stand** (knock down condition) in 48V configuration on demand – ideally designed for outdoor application.



2V Cells are also supplied in **factory filled and charged condition** to ensure savings on initial charging and man - hour cost at site.



2V Cells up to 800Ah are housed in **MS Modules (8/6/4V)** so that the compact modules can be installed straightway on arrival at site.  
**No additional expense** for Battery Stand.



Easy to **Handle and Transport**

## TECHNICAL SPECIFICATIONS :

| Type of Battery | Nominal Voltage (V) | Capacity @C10 upto 1.80 v.p.c at 27°C (Ah) | Battery Weight with Acid ± 5% (kg) | Overall Dimension |              |               |
|-----------------|---------------------|--|------------------------------------|-------------------|--------------|---------------|
|                 |                     |  |                                    | Length ± 5 mm     | Width ± 5 mm | Height ± 5 mm |
| 6LMS20          | 12                  | 20   | 13.2                               | 260               | 172          | 250           |
| 6LMS20L         | 12                  | 20   | 14.3                               | 260               | 172          | 250           |
| 6LMS40          | 12                  | 40   | 25.5                               | 410               | 176          | 292           |
| 6LMS40L         | 12                  | 40   | 26.5                               | 410               | 176          | 292           |
| 6LMS60          | 12                  | 60   | 28.0                               | 410               | 176          | 292           |
| 6LMS60L         | 12                  | 60   | 28.0                               | 410               | 176          | 292           |
| 6LMS75          | 12                  | 75   | 32.0                               | 410               | 176          | 292           |
| 6LMS75L         | 12                  | 75   | 42.5                               | 530               | 220          | 294           |
| 6LMS100         | 12                  | 100  | 43.0                               | 533               | 220          | 294           |
| 6LMS100L        | 12                  | 100  | 52.0                               | 500               | 187          | 421           |
| 6LMS120         | 12                  | 120  | 52.0                               | 500               | 187          | 421           |
| 6LMS120L        | 12                  | 120  | 56.0                               | 500               | 187          | 421           |
| 6LMS150         | 12                  | 150  | 56.0                               | 500               | 187          | 421           |
| 6LMS150L        | 12                  | 150  | 62.0                               | 500               | 187          | 421           |
| 6LMS180         | 12                  | 180  | 62.0                               | 500               | 187          | 421           |
| 6LMS180L        | 12                  | 180  | 69.0                               | 500               | 187          | 406           |
| 6LMS200         | 12                  | 200  | 65.0                               | 500               | 187          | 421           |
| 6LMS200L        | 12                  | 200  | 75.0                               | 500               | 187          | 421           |
| 3LMS300         | 6                   | 300  | 66.3                               | 500               | 187          | 421           |

| Type of Battery | Nominal Voltage (V) | Capacity @C10 upto 1.85 v.p.c at 27°C (Ah) | Cell Weight with Acid ± 5% (kg) | Overall Dimension |              |               |
|-----------------|---------------------|--|---------------------------------|-------------------|--------------|---------------|
|                 |                     |  |                                 | Length ± 5 mm     | Width ± 5 mm | Height ± 5 mm |
| LMXT300         | 2                   | 300  | 21                              | 125               | 158          | 543           |
| LMXT400         | 2                   | 400  | 27                              | 125               | 158          | 699           |
| LMXT500         | 2                   | 500  | 37                              | 173               | 158          | 699           |
| LMXT550         | 2                   | 550  | 39                              | 173               | 158          | 699           |
| LMXT600         | 2                   | 600  | 40                              | 173               | 158          | 699           |
| LMXT650         | 2                   | 650  | 41                              | 173               | 158          | 699           |
| LMXT700         | 2                   | 700  | 51                              | 205               | 158          | 753           |
| LMXT750         | 2                   | 750  | 52                              | 205               | 158          | 753           |
| LMXT800         | 2                   | 800  | 53                              | 205               | 158          | 753           |
| LMXT850         | 2                   | 850  | 65                              | 416               | 172          | 535           |
| LMXT900         | 2                   | 900  | 67                              | 416               | 171          | 535           |
| LMXT1000        | 2                   | 1000                                       | 72                              | 416               | 171          | 535           |

| Type of Battery | Nominal Voltage (V) | Capacity @C10 upto 1.80 v.p.c at 27°C (Ah) | Battery Weight with Acid ± 5% (kg) | Overall Dimension |              |               |
|-----------------|---------------------|--|------------------------------------|-------------------|--------------|---------------|
|                 |                     |  |                                    | Length ± 5 mm     | Width ± 5 mm | Height ± 5 mm |
| 6SBZ40          | 12                  | 40   | 19                                 | 303               | 171          | 247           |
| 6SBZ40L         | 12                  | 40   | 25.2                               | 304               | 172          | 247           |
| 6SBZ75L         | 12                  | 75   | 30.3                               | 410               | 176          | 292           |
| 6SBZ105L        | 12                  | 105  | 43.5                               | 530               | 220          | 294           |
| 6SBZ150         | 12                  | 150  | 50                                 | 530               | 187          | 320           |



# EXIDE SOLATRON<sup>TM</sup>

## FEATURES :



Batteries are made of Torr Tubular Positive Plates



Available in **12V & 2V** range



Exide **SOLATRON Tubular GEL VRLA** batteries offer **reliable, maintenance free** power.



Supplied in **factory charged condition** – ensures optimal quality and ready to us.



Suitable for **frequent deep cycles**.



**Low rate** of self discharge



**No acid stratification**



The thixotropic GEL manufactured with exclusive mixing technology in our state-of-the-art GEL manufacturing plant enables completely **spill proof & leak proof** and many available options / orientations for installation.



Designed for **long life**



SOLATRON 12V & 2V Gel ranges meets IS 15549, IEC 61427, IEC 60896 – 21& 22, BS 6290 Part IV, IEEE – 1188/1189, Eurobat Guide 1999 – Classified as “Long Life”



Solatron<sup>®</sup> – 12V Battery

## ADD ON FEATURES :



Exclusive Gel manufacturing and mixing technology **ensures longer cycle life**.



Ultrapremium imported sealing valves **ensures safety and long life**.



**Ultrapremium grade separators** with excellent porosity and cleanliness are used to get **extended life and performance**.



2V cells are housed with **stackable MS Modules (8V)**.



2V cells can be supplied with **MS Cabinet** (fitted suitable exhaust system) in 48V configuration on demand – ideally **designed for outdoor application**.



Solatron<sup>®</sup> – 2V Cells

## TECHNICAL SPECIFICATIONS :

| Type of Battery | Nominal Voltage (V) | Capacity @C10 upto 1.75 v.p.c at 27°C (Ah) | Battery Weight with Gel ± 5% (kg) | Overall Dimension |              |               |
|-----------------|---------------------|--|-----------------------------------|-------------------|--------------|---------------|
|                 |                     |  |                                   | Length ± 5 mm     | Width ± 5 mm | Height ± 5 mm |
| 6SGL26          | 12                  | 26   | 13                                | 197               | 165          | 170           |
| 6SGL40          | 12                  | 40   | 22                                | 354               | 169          | 230           |
| 6SGL42          | 12                  | 42   | 22                                | 354               | 169          | 230           |
| 6SGL65          | 12                  | 65   | 26                                | 354               | 169          | 230           |
| 6SGL75          | 12                  | 75   | 38                                | 531               | 170          | 258           |
| 6SGL100         | 12                  | 100  | 44                                | 531               | 170          | 258           |
| 6SGL120         | 12                  | 120  | 48                                | 531               | 170          | 258           |
| 6SGL150         | 12                  | 150  | 64                                | 533               | 250          | 240           |
| 6SGL200         | 12                  | 200  | 84                                | 428               | 287          | 400           |

| Type of Battery | Nominal Voltage (V) | Capacity @C10 upto 1.75 v.p.c at 27°C (Ah) | Module Dimension |              |             |              |                |
|-----------------|---------------------|--|------------------|--------------|-------------|--------------|----------------|
|                 |                     |  | Voltage (V)      | Length ± 5mm | Width ± 5mm | Height ± 5mm | Weight ±5%(Kg) |
| SG200           | 2                   | 200  | 12               | 406          | 365         | 370          | 91.46          |
| SG300           | 2                   | 300  | 8                | 585          | 201         | 520          | 102.4          |
| SG400           | 2                   | 400  | 8                | 585          | 201         | 520          | 113.2          |
| SG500           | 2                   | 500  | 8                | 717          | 200         | 520          | 149.3          |
| SG550           | 2                   | 550  | 8                | 717          | 200         | 520          | 149.3          |
| SG600           | 2                   | 600  | 8                | 585          | 201         | 690          | 158.5          |
| SG650           | 2                   | 650  | 8                | 825          | 206         | 516          | 172.3          |
| SG700           | 2                   | 700  | 6                | 552          | 200         | 610          | 137            |
| SG750           | 2                   | 750  | 6                | 552          | 200         | 690          | 155.6          |
| SG800           | 2                   | 800  | 6                | 552          | 200         | 690          | 155.6          |
| SG850           | 2                   | 850  | 4                | 386          | 262         | 690          | 125.2          |
| SG900           | 2                   | 900  | 4                | 386          | 262         | 690          | 125.2          |
| SG950           | 2                   | 950  | 4                | 386          | 262         | 690          | 133.2          |
| SG1000          | 2                   | 1000                                       | 4                | 386          | 262         | 690          | 133.2          |
| SG1100          | 2                   | 1100                                       | 4                | 526          | 221         | 690          | 150.3          |

## RECHARGING CHARACTERISTICS DURING OPERATIONS :

|  | Low Maintenance Flooded Tubular Ranges   | Tubular GEL VRLA Sealed Ranges |
|--|--|--------------------------------|
|  | Recommended Parameters For ambient temperature of 25°- 30°C                          |                                |
| Charging Current                               | Maximum - 20% of the battery AH capacity<br>Minimum - 10% of the battery AH capacity |                                |
| Bulk Voltage                                   | 2.60 +/- 0.02V x no. of cells  | 2.40 +/- 0.02V x no. of cells  |
| Float Voltage                                  | 2.30 +/- 0.02V x no. of cells  | 2.28 +/- 0.02V x no. of cells  |
| Load Reconnect Voltage                         | 2.16 +/- 0.02V x no. of cells  | 2.20 +/- 0.02V x no. of cells  |
| Low Voltage Disconnect                         | 1.90 +/- 0.02V x no. of cells  | 1.90 +/- 0.02V x no. of cells  |
| Recharge Factor                                | 110% of discharge Ah   | 106% of discharge Ah           |
| Temperature Correction Factor (reference 25°C) | Float : -3mV/°C/2V unit<br>Cyclic : -5mV/°C/2V unit                                  |                                |



## APPLICATIONS :



### SOLAR PHOTO VOLTAIC



**ROOF-TOP  
SOLAR POWER PACK**



**SOLAR HYBRID  
INVERTERS**



**HOME  
LIGHTING**



**STREET  
LIGHTING**



**RURAL  
ELECTRIFICATION**



**OFFSHORE  
PLATFORMS**



**SOLAR  
POWER PLANTS**



**RAILWAY  
SIGNALING**



**TELE  
COMMUNICATION**



**NAVIGATIONAL  
AIDS**

Toll Free No : **1800 103 5454**

**Head Office:** Kolkata: 'Exide House', 59E Chowringhee Road, Kolkata - 700 020.  
Phone: (033) 2283 2120/33/36/50/51/71/2238/39, Fax: (033) 2283 2632/37

**Corporate Marketing Office:** Kolkata: 6A, Hathibagan Road, Kolkata - 700 014.  
Phone: (033) 2286 6158/6159, Fax: (033) 2286 6186

E-mail: JaymalyaS@exide.co.in

Visit us at: [www.exideindustries.com](http://www.exideindustries.com)



#### Regional Offices

**Kolkata :** 6A, Hatibagan Road, Entally, Kolkata – 700 014  
Phone : + 91 33 2286 1860/6193/6032

**New Delhi :** Exide Industries Ltd, Exide House 8/42, Kirti Nagar Industrial Area, Opp. MDH Spice Factory, New Delhi-110015  
Phone : +91 11 4144 0293 / 0068 / 0927 / 4238 1581

**Chennai :** Exide Industries Limited, New No 824/2, Old No 398, Third Floor, Anna Salai, Nandanam, Chennai - 600 035  
Phone : +91 44 4907 5100/5125 | Fax : +91 44 4907 5126

**Mumbai :** 'RAHEJAS', 5th floor, BC Main Avenue, V P Road, Santacruz (West), Mumbai - 400 054.  
Phone : +91 22 2646 5283/84 | Fax +91 22 2646 5042

This catalogue is issued to provide outline information only and is not deemed to form part of an offer or contract.  
Our policy is one of continued improvement and we reserve the right to change details without prior notice.