



**LOW MAINTENANCE  
TUBULAR  
BATTERY FOR  
SOLAR PV  
APPLICATION**



**EXIDE  
INDUSTRIAL**

For over 50 years, Exide Industries Ltd, has pioneered battery technology in India. It is the only company in South and South East Asia which designs and manufactures lead acid batteries from 2.5 Ah to 20400 Ah. Exide offers the latest series of tubular batteries, manufactured in its state-of-the art ISO 9001 : 2000, TS 16949 : 2002 & ISO 14001 : 2004 certified factories to fulfill the growing demand both in domestic and export market. Exide 12V and 6V low maintenance battery for Solar photovoltaic application comes with high quality TORR Tubular plate and its performance characteristics conform to IS 13369 : 1992.

## PRODUCT FEATURES

- PPCP Container
- Tubular Positive Plates
- Pasted Negative Plates
- High tensile, acid resistant Polyester Gauntlets
- High porosity Envelope Separators
- Microporous Ceramic Vent Plug
- Heavy duty Terminals
- Low resistance Fasteners.

## TORR TUBULAR TECHNOLOGY

Exide Tubular Batteries have the spines or the positive plate support cast at high pressure (100 Bar) in imported HADI machine which ensures void free structure and consistent grain orientation and can protect the plate support from anodic corrosion. This in turn ensures higher reliability and longer life. Exide Torr Tubular

plates are also cast with low antimony content which reduces the topping up frequency, making the battery low maintenance type. This also keeps the float charging current at a lower value, thus minimises the total energy requirement needed to keep the battery in charged condition during standby float application.

**APPLICATIONS :** ● Solar Photovoltaic System back up ● Solar Power Plant ● Solar-Wind Hybrid System

## UNIQUE CHARACTERISTICS

- Very low maintenance : Topping up frequency once in 8 – 10 months
- High charging efficiency : AH Efficiency – In excess of 90%  
WH Efficiency – In excess of 80%
- Low rate of self-discharge : Less than 3% per month at 30°C
- Rechargeability at very low rates : Charging rates as low as 0.05% of the normal charging current
- Capacity to sustain partial state of charge : Upto six months
- Service life under normal operating condition : (1) 8 – 10 years of batteries with suffix L & prefix TT  
(2) 5 – 6 years for other types of batteries
- Long cycle life :

| Depth of Discharge | No. of Cycles |
|--------------------|---------------|
| 80%                | 1500          |
| 50%                | 3000          |
| 20%                | 5000          |

## Benefits of Exide Solar Battery

- Specially designed to suit the rigours of SPV application.
- Comes with TORR Tubular technology which stands for reliable and consistent performance.
- Designed to operate in partial charge condition.
- Suitable for frequent cyclic duty.
- Superior voltage and energy output profile.
- Supplied in factory charged condition – ensures optimal quality and ready to use.
- Batteries with suffix L & prefix TT comes with longer life & higher warranty.

## TECHNICAL DATA

| Type of Battery | Capacity, Weight, Dimension |  |                               |                         |                      |                   |                 |                   |
|-----------------|-----------------------------|--|-------------------------------|-------------------------|----------------------|-------------------|-----------------|-------------------|
|                 | Nominal Voltage (V)         | Capacity @ C 10 to 1.85 VPC at 27 ° C (Ah) | Material of Container and Lid | Cell Weight             |                      | Overall Dimension |                 |                   |
|                 |                             |  |                               | Without Acid +/-5% (Kg) | With Acid +/-5% (Kg) | Length +/-5 (mm)  | Width +/-5 (mm) | Height* +/-5 (mm) |
| 6LMS20L         | 12                          | 20Ah                                       | PPCP                          | 12.0                    | 18.0                 | 260               | 173             | 240               |
| 6LMS40          | 12                          | 40Ah                                       | PPCP                          | 13.4                    | 22.7                 | 410               | 176             | 280               |
| 6LMS40L         | 12                          | 40Ah                                       | PPCP                          | 16.7                    | 28.2                 | 410               | 176             | 280               |
| 6LMS75          | 12                          | 75Ah                                       | PPCP                          | 21.0                    | 37.0                 | 410               | 176             | 280               |
| 6LMS75L         | 12                          | 75Ah                                       | PPCP                          | 27.8                    | 43.3                 | 506               | 223             | 258               |
| 6TT100          | 12                          | 100Ah                                      | PPCP                          | 30.0                    | 57.0                 | 500               | 187             | 418               |
| 6LMS120L        | 12                          | 120Ah                                      | PPCP                          | 43.0                    | 65.0                 | 500               | 187             | 418               |
| 3TT200          | 6                           | 200Ah                                      | PPCP                          | 44.7                    | 69.0                 | 500               | 187             | 450               |
| 3TT300          | 6                           | 300Ah                                      | PPCP                          | 54.0                    | 72.0                 | 500               | 187             | 450               |

\*Height is upto Terminal Top



E-mail : [indicare@exide.co.in](mailto:indicare@exide.co.in), Visit us at [www.exide4u.com](http://www.exide4u.com)  
Toll Free No. 1800-103-5454

**Head Office :** 59E, Chowringhee Road, Kolkata - 700 020, Ph. : (033) 2283 2120 / 33 / 36 / 50 / 51 / 71 / 2238 / 39, Fax : (033) 2283 2632 / 37, **Corporate Marketing Office :** 6A Hatibagan Road, Entally, Kolkata - 700 014, Ph. : (033) 2286 6158 / 6159, Fax : (033) 2286 6186, e-mail : [indicare@exide.co.in](mailto:indicare@exide.co.in), **Regional Offices :** **New Delhi :** 'Exide House', 3E/1 Link Road, Jhandewalan Extension, New Delhi - 110 055, Ph. : (011) 2362 7095 / 96 / 98, Fax : (011) 2333 5703, **Chennai :** Industrial Marketing Division, Economist House, 2nd floor Western wing, S-15, Thiru vi-ka Industrial Estate, Guindy Chennai - 600 032, Ph. : (044) 2250 0726, 2250 1326 2250 1216, Fax : (044) 2250 1216, **Mumbai :** 'RAHEJAS', 5th Floor, 8C Main Avenue, V P Road, Santacruz (West), Mumbai - 400 054, Ph. : (022) 2646 5283/84, Fax : (022) 2646 5042, **Kolkata :** 6A Hatibagan Road, Entally, Kolkata - 700 014, Ph. : (033) 2284 3137/3168/3169, Fax : (033) 2289 7455, **Branch Offices :** **Cuttack :** Ph. : (0671) 268 6151, **Guwahati :** Ph. : (0361) 234 2500 / 1119, **Jamshedpur :** Ph. : (0657) 229 3022 / 0785, Fax : (0657) 229 0894 (PP), **Patna :** Ph. : (0612) 257 0415, 645 8102 / 8103, Fax : (0612) 252 9902 (PP), **Siliguri :** Ph. : (0353) 254 0321, **Chandigarh :** Ph. : (0172) 500 0014, Fax : (0172) 265 4395, **Dehradun :** Ph. : (0135) 324 7766, **Ghaziabad :** Ph. : (0120) 411 7952, 416 4419, **Jaipur :** Ph. : (0141) 229 3799 / 04, Fax : (0141) 229 2829, **Jalandhar :** Ph. : (0181) 223 7870, 653 4983, Fax : (0181) 245 9571, **Lucknow :** Ph. : (0522) 404 1896 / 1899, Fax : (0522) 221 8089, **Varanasi :** Ph. : (0542) 250 1680, Fax : (0542) 250 1296, **Bangalore :** Ph. : (080) 4128 3793/3493/3477, Fax : (080) 2357 8672, **Coimbatore :** Ph. : (0422) 222 1846, Fax : (0422) 222 0858, **Hyderabad :** Ph. : (040) 6516 3958, Fax : (040) 4019 6054, **Kochi :** Ph. : (0484) 414 9351, Fax : (0484) 253 0797, **Ahmedabad :** Ph. : (079) 685 9661 / 6697 / 6698, Fax : (079) 685 6698, **Indore :** Ph. : (0731) 255 6290 / 91, Fax : (0731) 249 3395, **Mumbai :** Ph. : (022) 2646 5283 / 84, Fax : (022) 2646 5042, **Nagpur :** Ph. : (0712) 5615 8823/83, 259 4722, Fax : (0712) 259 1479, **Pune :** Ph. : (020) 401 1083 / 84 / 85 / 86, Fax : (020) 612 6426, **Vadodara :** Telefax : (0265) 235 4240

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