



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



**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 :
- High charging efficiency :
- Low rate of self-discharge :
- Rechargeability at very low rates :
- Capacity to sustain partial state of charge :
- Service life under normal operating condition :
- Long cycle life :

Topping up frequency once in 8 – 10 months

AH Efficiency – In excess of 90%

WH Efficiency – In excess of 80%

Less than 3% per month at 30°C

Charging rates as low as 0.05% of the normal charging current

Upto six months

(1) 8 – 10 years of batteries with suffix L & prefix TT

(2) 5 – 6 years for other types of batteries

| 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             | 249               |
| 6LMS40L         | 12                          | 40Ah                                       | PPCP                          | 16.7                    | 28.2                 | 410               | 176             | 249               |
| 6LMS75          | 12                          | 75Ah                                       | PPCP                          | 21.0                    | 37.0                 | 410               | 176             | 249               |
| 6LMS75L         | 12                          | 75Ah                                       | PPCP                          | 27.8                    | 43.3                 | 506               | 223             | 258               |
| 6TT100          | 12                          | 100Ah                                      | PPCP                          | 30.0                    | 57.0                 | 500               | 187             | 418               |
| 6LMS120         | 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 Vent Plug



Visit us at : [www.exide4u.com](http://www.exide4u.com)

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