EXIDE INDUSTRIAL

LOW MAINTENANCE TUBULAR BATTERY FOR SOLAR PV APPLICATION

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 consistant 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 consistant 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