



SOLA-TUBULAR

**LMXT Range Low Maintenance
Tubular Batteries For Solar Application**



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INDUSTRIAL

EXIDE LMXT SERIES TUBULAR LEAD ACID BATTERIES FOR SOLAR PHOTOVOLTAIC APPLICATION

Exide Industries Ltd, the leader of Lead Acid battery manufacturers in India for the last 65 years is proud to present the new LMXT range of Tubular low maintenance lead acid batteries specially designed for SPV and other renewable energy based applications.

Over the last decades, the focus on renewable energy usage to meet the growing power demand of the country has increased manifold. 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 are intermittent and specially designed battery is required to effectively store this electricity and provide power optimally whenever required. The battery thus used is to be suitable to withstand daily charge-discharge cycle to work efficiently in Partial State of Charge (PSOC) situation and to be able to get recharged at a fast pace even at low/available current.

Exide Industries Ltd has pioneered the design and manufacturing technologies of the Tubular Lead Acid batteries and its tubular batteries are the best in the country in all applications like Home UPS, Traction, Office UPS, Power & Energy sectors etc.

Exide's latest addition in Tubular series is the LMXT range of batteries specially designed and manufactured to suit the rigors of SPV application having the following unique features:

- Legendary Törr Tubular Positive Plates made in high pressure HADI casting machine which imparts longer life with high reliability
- Excellent Cycle life - 1500 Cycles at 80% DOD & 7500 Cycles at 20% DOD
- Ideally suited for operation in PSOC condition
- Special non woven gauntlet for positive plates imports extra life of battery
- Special alloy in grids and pastes results very low water loss i.e. ultra low topping up frequency

Besides above inherent and core strengths, Exide LMXT range comes with following special features to suit the requirements specific for SPV installations.

- Batteries upto 800AH are fitted in MS modules (8/6/4V) so that the compact modules can be installed straightway on arrival at site (stands not required).
- Batteries are supplied in factory charged condition (unless otherwise specified by customer) and thus ready to be installed and used.
- Easy to Handle & Transport

LMXT series conforms to IS 1651 specification with latest amendments & IEC 60896-21 & 22 at operation specific gravity of 1.240. Technical Characteristics and Standard Layout of Battery Banks at different voltage configurations are given in Table no. 1, 2, 3 & 4 as a reference and convenience in battery selection.



EXIDE LMXT SERIES: THE BEST VALUE FOR MONEY IN SPV APPLICATION.

Table:1

TECHNICAL CHARACTERISTICS

Model	Nominal Voltage	Dimensions In mm					Weight (kg)		Re-charging Current (amps)
		C10	C20	Length	Width	Height	Dry	Filled	
		1.85 V/C	1.85 V/C	± 5	± 5	± 5	± 5%	±5%	
LMXT 300	2V	300	360	125	158	543	14	21	36
LMXT 500	2V	500	600	173	158	699	23	38	60
LMXT 600	2V	600	720	173	158	699	28	41	72
LMXT 700	2V	700	840	205	158	753	31	51	84
LMXT 800	2V	800	960	205	158	753	35	53	96
LMXT 900	2V	900	1080	416	171	535	44	70	108
LMXT 1000	2V	1000	1200	416	171	535	48	72	120

Table:2

Model	Nominal Voltage	Initial Charging Parameters*				Electrolyte Specific Gravity
		Acid Qty (Ltrs)	Starting	Finishing	Minimum Ah Input during Initial Charging	
LMXT 300	2V	6	36	18	1650	Initial filling gravity-1.220 ±0.005
LMXT 500	2V	12	60	30	2750	
LMXT 600	2V	11	72	36	3300	
LMXT 700	2V	16	84	42	3850	Fully Charged Gravity-1.245 ±0.005
LMXT 800	2V	15	96	48	4400	
LMXT 900	2V	21	108	54	4950	
LMXT 1000	2V	20	120	60	5500	

Table:3

Cell Type	Capacity at different rate				
	C-10	C-20	C-48	C-72	C-120
	1.85V	1.85V	1.85V	1.85V	1.90V
LMXT 300	300	360	384	396	420
LMXT 500	500	600	640	660	700
LMXT 600	600	720	768	792	840
LMXT 700	700	840	896	924	980
LMXT 800	800	960	1024	1056	1120
LMXT 900	900	1080	1152	1188	1260
LMXT 1000	1000	1200	1280	1320	1400

* Normally LMXT series batteries are supplied In Factory charged condition.

In case of supply of batteries in Dry and Uncharged condition, the initial filling and charging at site is to be done as per the parameters given.

Table:4

STANDARD LAYOUT OF BATTERY BANK IN SINGLE TIER ARRANGEMENT

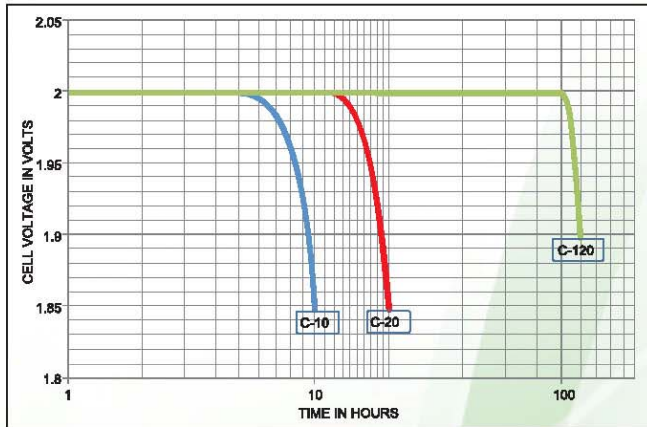
Battery Type	Module Voltage & Module Dimensions	System Voltage	No. of Modules	No. of Rows	Dimensions (mm)		
					Length (±5)	Width (±5)	Height (±5)
LMXT300	8V 700(L) x 157(W) x 336(H)	48V	6	2	3150	2064	554
		96V	12	4	3150	3328	554
		120V	15	4	3900	3328	554
		240V	30	6	4650	4592	554
		360V	45	8	5400	5856	554
LMXT500 & LMXT600	6V 552(L) x 205(W) x 445(H)	48V	8	2	3308	2160	705
		96V	16	4	3308	3520	705
		120V	20	4	3910	3520	705
		240V	40	6	5114	4880	705
		360V	60	6	6920	4880	705
LMXT700 & LMXT800	4V 387(L) x 237(W) x 495(H)	48V	12	2	3522	2224	755
		96V	24	4	3522	3648	755
		120V	30	4	4396	3648	755
		240V	60	6	5270	5072	755
		360V	90	6	7455	5072	755

STANDARD LAYOUT OF BATTERY BANK WITH MS STILLAGES

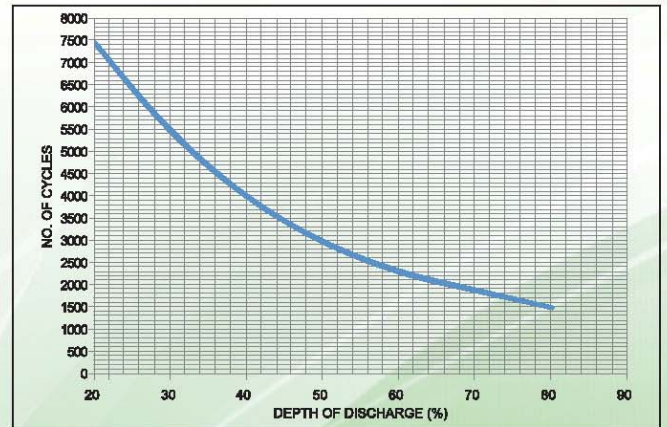
Battery Type	Cell Voltage	System Voltage	No. of Stillages	No. of Rows	Dimensions (mm)		
					Length (±5)	Width (±5)	Height (±5)
LMXT900 & LMXT1000	2V	48V	4	2	3164	2750	597
		96V	8	4	3164	4050	597
		120V	8	4	3707	4050	597
		240V	16	8	3707	7950	597
		360V	24	12	3707	11850	597

* These are our standard layouts. Other options can be offered against specific requirement.

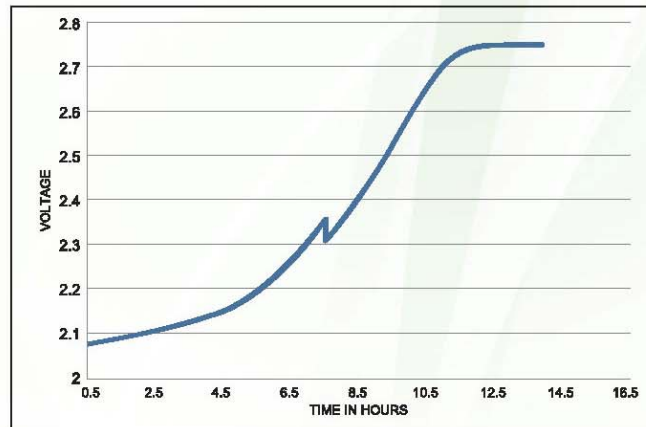
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DOD Vs CYCLE LIFE



RE-CHARGING PROFILE



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