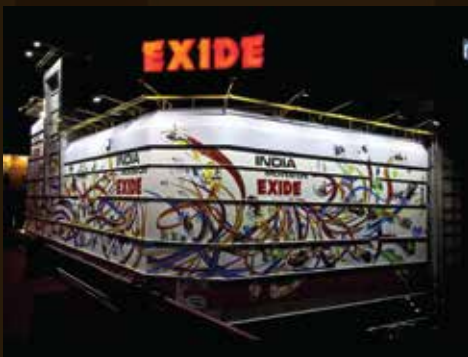


Flooded Tubular -LMS Series

EXIDE

INDUSTRIAL
SOLUTION
POWER



- Headquartered in **Kolkata**, India
- Products : **Lead Acid Storage Batteries** : 2.5Ah to 20,000 Ah
Home UPS
DC Power Solution
Standby Products & Solutions
- 9 Manufacturing units** in India
- 1 R&D Center** in India
- 5 Wholly owned Subsidiaries** in India
- Turnover of **USD 1.3 Billion**
- An Integrated Manufacturing Unit for **Standby Systems and DC Power solutions** in Kolkata, India.



For over 60 Years, Ceil 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 7Ah to 20400 Ah. Exide offers the latest series of tubular batteries, manufactured in its state-of-the-art ISO 9001 : 2008, ISO 14001 : 2004 Certified Factories to meet the growing demand both in domestic and export market. Ceil 12V and 6V low maintenance Tubular battery for Solar photovoltaic application comes with high quality Tubular plate and its performance characteristics conform to IS 13369 : 1992 with latest amendments.



PRODUCT FEATURE

 Available in SOLA-TUBULAR range	 PPCP Container	 Tubular Positive Plates	 Pasted Negative Plates	 High porosity Envelope Separators
 Microporous Ceramic Vent Plug	 High tensile, acid resistant Polyster Gauntlets	 Low resistance Fasteners.	 Heavy duty Terminal	



TUBULAR TECHNOLOGY

Ceil 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. Ceil 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



APPLICATION :



Solar home lighting



Solar Street Lighting



Solar Photovoltaic Power Plants



Traffic Signalling



BENIFITS

- Specially Designed For arduous SPV application
- Manufacturing with Tubular Technology which stands for reliable and consistent performance
- Designed to operate in partial state of charge condition.
- Ideally designed for cyclic application.
- Superior voltage and energy output profile.
- Excellent charging efficiency:
 - AH efficiency - In excess of 90%
 - WH efficiency - In excess of 80%
- Service life comparable with the best of the international Brands.
- Designed cycle life at C10 discharge at 25°C :
 - 1500 cycle to 80% DOD
 - 3000 cycles to 50% DOD
 - 5000 cycles to 20% DOD
- Supplied in factory charged condition - ensures optimal quality and ready to use.
- Ultra low maintenance
- Low rate of self discharge
- 6V mono-blocks are supplied with Ms Cabinet (fitted suitable exhaust system) or MS Stand (knock down condition) in 48V configuration - ideally designed for outdoor application.



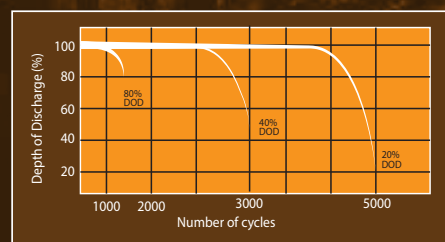
CHARGING CHARACTERISTICS OF SOLAR BATTERIES :

Model Of Operation	Voltage setting per mono-block unit for ambient temperature 25-30°C		Current Settings
	12V mono-block	6V mono-block	
Float Voltage	13.7V±0.1V	6.85V±0.1V	Maximum - 20% of battery Ah capacity Minimum - 10% of battery Ah capacity
Bulk Voltage	14.5V±0.1V	7.25V±0.1V	
Low Voltage Disconnect	11.1V±0.1V	5.55V±0.1V	

Temperature Compensation : (reference 25°C)
Float : -18mV/°C/12Vunit
Cyclic: -30mV/°C/12Vunit



CYCLE LIFE



TECHNICAL DATA

Type of Battery	Nominal Voltage	Capacity@ C10 to 1.80 v.p.c at 27°C	Cell Weight		Overall Dimension			Container Type
			Without Acid +/- 5%	With Acid +/- 5%	Length +/-	Width +/-	Hight*+/-	
	(V)	(Ah)	(Kg)	(Kg)	(mm)	(mm)	(mm)	
6LMS20L	12	20	12.0	18.0	260	172	240	PPCP
6LMS40	12	40	12.0	23.5	410	176	282	PPCP
6LMS40L	12	40	14.0	26.5	410	176	282	PPCP
6LMS75	12	75	20.0	32.0	410	176	282	PPCP
6LMS75L	12	75	22.5	42.5	530	220	287	PPCP
6LMS100L	12	100	30.0	57.0	500	187	416	PPCP
6LMS120L	12	120	31.4	48.5	530	220	287	PPCP
6LMS150L	12	150	44.0	66.3	500	187	416	PPCP
6LMS200L	12	200	54.0	78.0	500	187	416	PPCP
6LMS300	6	300	44.0	66.3	500	187	416	PPCP

Global Presence

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- Tanzania
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- UAE
- Sri Lanka
- Malaysia
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- Indonesia
- Brunei
- Philippines
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- Vietnam
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- Oman
- Kuwait
- Armenia
- Finland
- Germany
- Scotland



EXIDE*



DYNEX

INDEX

CHLORIDE*



* Wherever we own the brand

EXIDE

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