

STATIONERY BATTERIES: LEAD ACID TYPE (WITH TUBULAR POSITIVE PLATES) IN MONOBLOC CONTAINER AS PER IS 13369:1992 LATEST.



- Batteries are made of tubular positive plates
- Available in 12V range
- Supplied in factory charge condition- ensures optimal quality & ready to use
- Ultra-low maintenance
- Suitable for frequent cyclic duty



- Superior cycle life
- Low rate of self-discharge
- Design for Long life
- 12V LMATS ranges meet IS 13369 specifications with latest amendments

TECHNICAL SPECIFICATION

Type of Battery	Nominal Voltage	Capacity @ C10 Per cell @ 27 °C	Battery Weight with Acid +/- 5%	Overall Dimension		
	(V)	(Ah)	(Kg)	Length +/- 5mm	Width +/- 5mm	Height +/-5mm
12LMS100	12	100	50.00	520	275	280
12LMS120	12	120	51.50	520	275	280
12LMS150	12	150	60.00	520	275	280
12LMS180	12	180	64.50	520	275	280
12LMS200	12	200	69.32	520	275	300
12LMS210	12	210	69.32	520	275	300

RECHARGING CHARACTERISTICS DURING OPERATIONS:

Low Maintenance Flooded Tubular Range

Recommended Parameters for Ambient Temperature of 25 -30°C

- | | |
|---|--|
| Charging Current | <ul style="list-style-type: none"> - Maximum-20% of the battery rated capacity (Ah) - Minimum-10% of the battery rated capacity (Ah) |
| Float Voltage | - 2.40 +/-0.02V x no. of the cells |
| Boost Voltage | - 2.60 +/- 0.02V x no. of the cells |
| Low Voltage Disconnect | - 1.90 +/- 0.02V x no of cells |
| Recharge Factor | <ul style="list-style-type: none"> - 110% of Discharge Ah - Float: -3mV/°C/2V unit - Cyclic: -5mV/°C/2V unit |
| Temperature Correction Factor (reference 25°C) | |



DO'S

- Always store the battery in cool and covered areas.
- Read the installation manual before starting installation of the batteries.
- Keep the battery away from sparks, heat source or fire.
- Charge the battery once in 3 months, in case the battery has been kept unused or ideal.
- If you find a battery is damaged before installation, stop the installation & inform the manufacturer.
- Ensure the surface and surroundings of the battery (S) are dry, clean & free of dirt/dust.
- Use proper sized cables along with correct plugs and crimping during installation.
- Set the charging parameters as mentioned in the maintenance manual.
- Charge the batteries immediately after discharge as per specification.
- All terminal bolts have to be tightened with spring washers and apply torque. The tightness of all bolts to be checked once in every 6 months.
- Record the currents & voltages once in a month in the prescribed format or register.
- Maintain the same AH & brand for a bank.
- Provide proper isolation between battery and battery rack.
- Only petroleum jelly (Vaseline) should be used in clamps & terminals. Any kind of grease should never be used.
- Electrical wirings, charging etc. to be checked at regular intervals.
- In case of any drop in electrolyte level, only demineralized(distilled) water to be used for topping.
- Always check the condition of the battery poles/terminals. Never use batteries if any pole or terminal is founddamaged.

DON'TS

- Do not keep the battery in direct sunlight, dust or moist place.
- Do not tamper the vent plugs.
- Don't over tight/under tight the terminal bolts. It may cause terminal breakage or fire due to loose contact.
- Do not allow any metal object to rest on the battery- this may cause short circuit.
- Do not mix with different capacities, different make, different types (VRLA, flooded/tubular batteries) and different manufactures' batteries in the same circuit.
- No cell tapping will be allowed during the service life.
- Do not use underrating cables for connecting the battery.
- Never install any type of battery in a completely sealed container. Sufficient ventilation to be provided for air circulation.
- Do not allow discharged battery for more than 12 hours in idle condition.
- Do not deep discharge the battery below specified limits.
- Avoid pairing new and full charge battery with old and low charge battery (age mixing) while pairing batteries of different batch may lead to explosion due to natural unequal deterioration in charging capacities.
- Remove positive (+ve) terminal first, then remove negative(-ve) one.
- Fix negative (-ve) terminal first, then fix positive (+ve) one.
- Ensure power plant in off condition, before connecting or disconnecting a battery to prevent sparking.
- Safety shoe, overall hand gloves & safety goggles/face shield shall be used secondary safety protection.



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