



LIGHTWAVE



Tall Tubular Battery

Model : **LW-TTB-100AH**

Model	LW-TTB-100AH
Battery Type	Deep cycle Flooded Tubular
Nominal Voltage (Volts)	12v
Capacity	100AH
Ratings	C20
Dimensions (mm)	502x190x410 (LxBxH)
Weight (Kgs)	55.5 Kgs (± 1%)
Positive Plate Type	Tubular (PbSn ⁺ Tech)
Tubular Bag	High Porosity Woven
Separator	High Charge PE
Electrolyte Type	Sulphuric Acid with Performance additives

- ♦ High performance tubular plates with ultra-frequency vibration filling process to ensure uniform paste density throughout the plate for longer life & consistent backup.

- ♦ PbSn+tech primary lead alloy composition & Advanced high pressure die casting machines to ensure defect free casting with high resistance to corrosion.

- ♦ Especially formulated expanders for active material to increase performance and cyclic life.

- ♦ Electrolyte with high purity additives to increase charge efficiency and self-life.

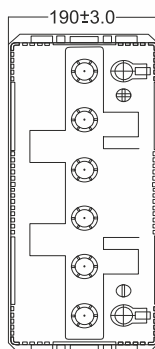
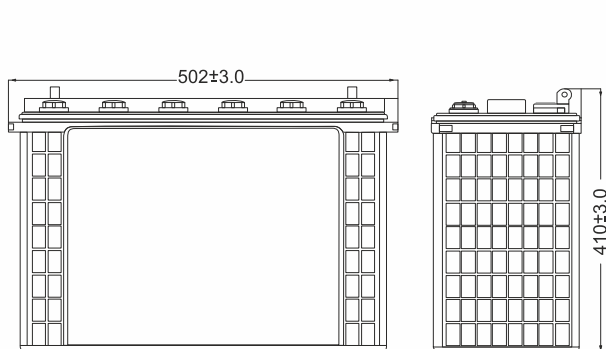
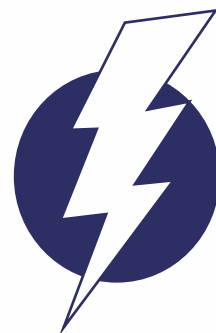
- ♦ Excellent performance on deep cyclic application and

faster recovery from deep discharge.

- ♦ Ceramic level indicators with permitted porosity to control spilling & suppress water loss to reduce water topping frequency.

- ♦ High strength PP (polypropylene) with extra dense injection moulding for battery container.

- ♦ Confirms IS 13369:1992 & IEC 60896-11, IEC 61427-1 Standards



COTECNA



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Model : LW-TTB-100AH

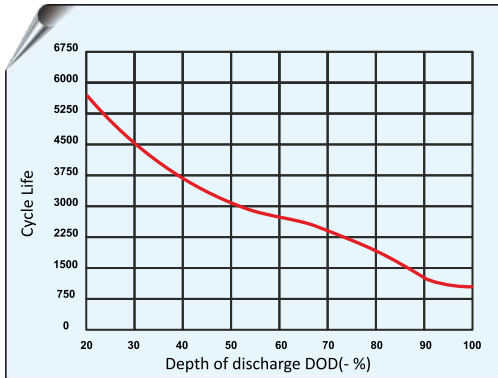


Fig: 1.1 Typical DOD vs Life Cycle

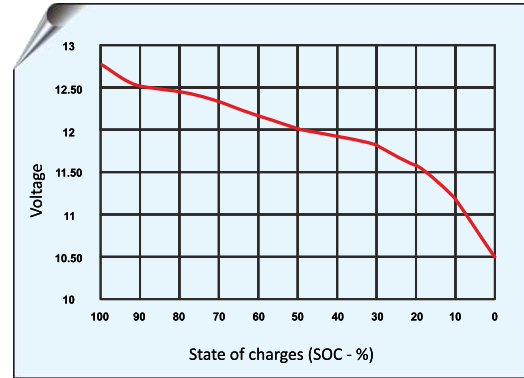


Fig: 1.2 State of charge characteristics

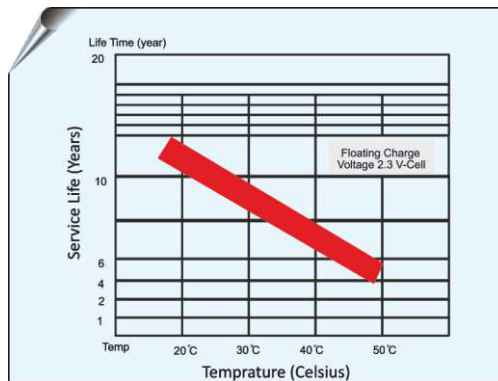


Fig: 1.3 Service (Float) Life & Temperature

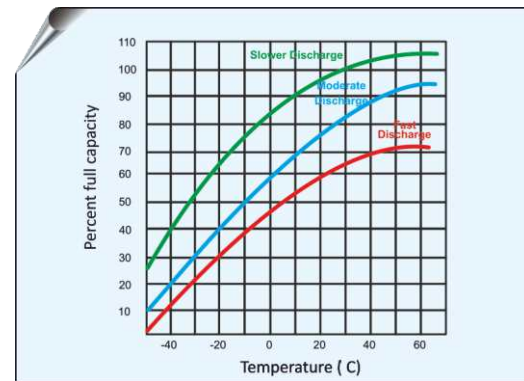


Fig: 1.4 Expected capacity vs Temperature

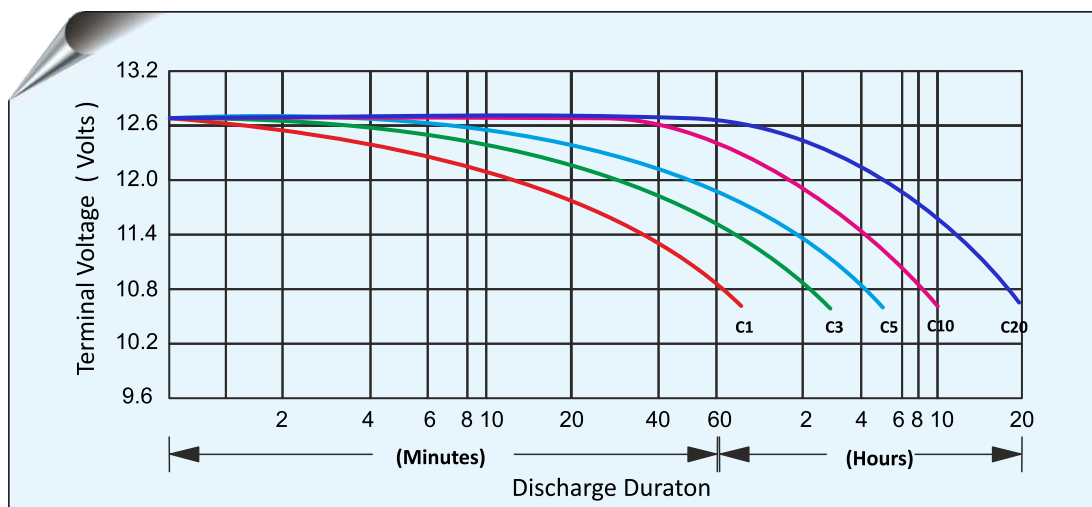


Fig: 1.5 Typical discharge curve at constant current discharge



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POWER DISCHARGE PERFORMANCE		
MAXIMUM BACKUP DURATION (HH:MM)		
Load	400W	200W
Time	02:00	04:30
**All test data based on stabilized battery capacity on new battery, under controlled laboratory test conditions with mean sum of 5 tests on bulb load		

CHARGE CHARACTERSTICS (27°C)	
Charging cut-off Voltage range (Bulk/Absorption Voltage)	14.2V - 14.6V, Maximum current 20A
Float Voltage Range (Float Voltage)	13.5V - 13.6V
**Battery to be recharged in CV mode only	

CHARGING TEMPERATURE COMPENSATION	
ADD	SUBTRACT
0.005 volt per cell for every 1°C below 25°C	0.005 Volt per cell for every 1°C above 25°C
0.0028 Volt per cell for every 1 F below 77 F	0.0028 Volt per cell for every 1 F above 77 F

MEASURE OF STATE OF CHARGE IN OPEN CIRCUIT VOLTAGE (27°C)

State of charge	0%	25%	50%	75%	100%
Specific Gravity	1.120	1.155	1.190	1.225	1.260
Voltage	11.8 V	12 V	12.1 V	12.4 V	12.7 V

M30 Opti-pressure ceramic Fluid Level Indicator



M22 CeraPE Vent Plug



M30 Dummy Plug



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