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ASPIRO
CONVEY THE SUN POWER



ASPIRO uses premium technology and high grade raw materials in these lead acid tubular batteries to deliver maximum power for extended durations and have an appreciably longer life span. These batteries are specifically suitable for powering up inverters. ASPIRO flooded lead acid batteries are environment-friendly, highly reliable in performance and are low in cost.

Hear again our extensive research and development wing has helped us create batteries customized to suit global operating conditions. These flooded batteries are perfect for use Residential, Commercial & Industrial Applications.

SOLAR TUBULAR LEAD ACID BATTERIES

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TECHNICAL SPECIFICATIONS OF SOLAR TUBULAR BATTERIES

Model	Capacity at 27 deg C When discharged at (C20 upto 1.75 VPc)	Dimension (±3mm)			Gross Weight (Kg±2%)	Constant Charge (Amps)
		Length	Width	Height	Filled	
ASTB 12000	100 AH	505	190	450	52	6-8A
ASTB 15000	135 AH	505	190	450	54	8-10A
ASTB 17000	150 AH	505	190	450	56	9-11A
ASTB 20000	180 AH	505	190	450	58	11-13A
ASTB 22000	200 AH	505	190	450	61	12-14A
ASTB 24000	220 AH	505	190	450	64	13-15A
ASTB 26000	240 AH	505	190	450	68	14-16A
ASTB 27000	250 AH	505	190	450	71	15-17A
ASTB 29000	270 AH	505	190	450	75	16-18A
ASTB 32000	300 AH	505	190	450	78	18-20A

* The height mentioned is upto water level indicator

CONDITION OF FULLY CHARGED

A) 3 Consecutive hourly reading of specific gravity and voltage when become constant.

B) Top of charge voltage will be around 16.2V-16.5V.

C) Specific Gravity at fully Charged condition 1.250 ± 0.005 at 27° C.

PRODUCT FEATURES

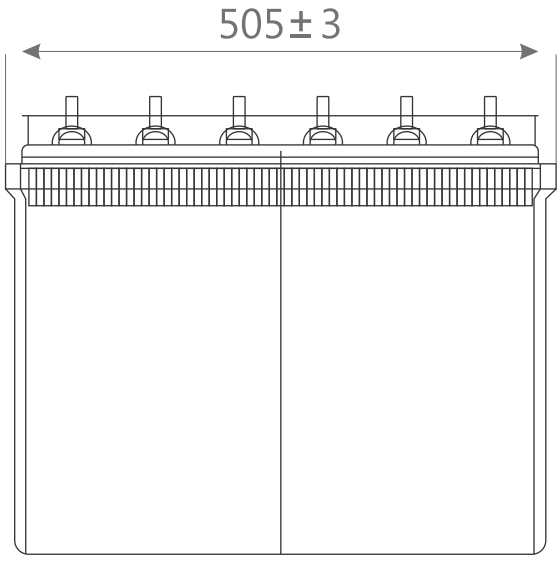
- Long shelf life when left unattended for extended periods
- Optimised Negative Paste Receipt For Fast Charge Acceptance
- Tubular Positive Plates
- Acid Resistant Polyester Gauntlets
- High Porosity Envelope Separators
- Micro porous Ceramic Spill Proof Vent Plug

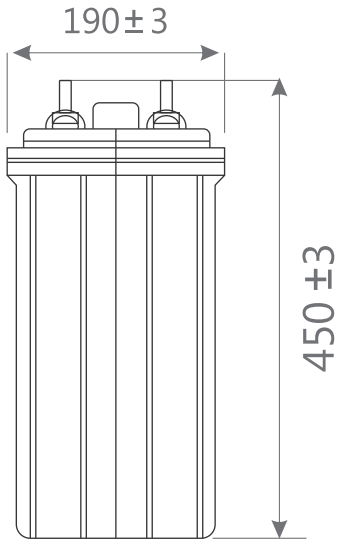
PRODUCT BENEFITS

- Long design life
- Very low maintenance
- Can handle extreme weather conditions
- Rugged Performance
- Environment Friendly
- More efficient and saves money

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ADVANTAGES

I Very long life I user friendly I acid volume per ampere hour is 30% more than that off ordinary tubular batteries. it act as coolant and also ensure very low maintenance I suited for use in areas of frequent power cuts I can withstand overcharge better I occupies less floor space, totally new look I less pollution environment friendly I ensure consistent quality

NORMAL RECHARGING INSTRUCTION

Recharging through Inverter at constant potential mode of 14.2V with limited current as specified. After battery potential reaches 14.4V, the battery should continue in float charge mode at constant potential of 13.8V.

Table I - Regular Wet Lead Acid Battery

Readings taken via Voltmeter after resting for more than 2 hrs. (i.e., no charging or discharging)

State of charge (Soc)	12V	Comments
100%	12.70	Cycling your battery in this zone will ensure a reasonable life expectancy
95%	12.60	
90%	12.50	
80%	12.42	
70%	12.32	
60%	12.20	
50%	12.06	
40%	11.90	Occasionally dropping Into this zone is OK but is not recommended. Repeated discharge to these levels will shorten battery life.
30%	11.75	
20%	11.58	
10%	11.31	Permanent damage will occur
Below 10% DEAD	10.5 or less	

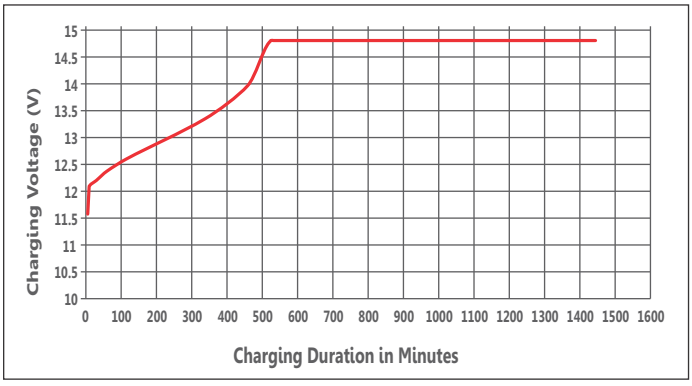
Notes:

Stated voltage assume a temperature of 27°C
Batteries just taken off the charger will have significantly higher voltage until the surface charge decays over 2 hrs or more.

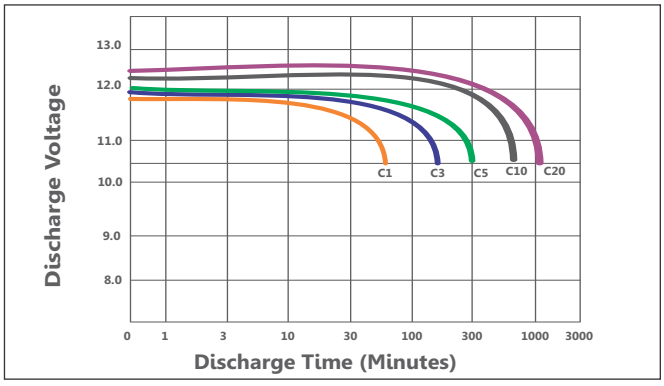
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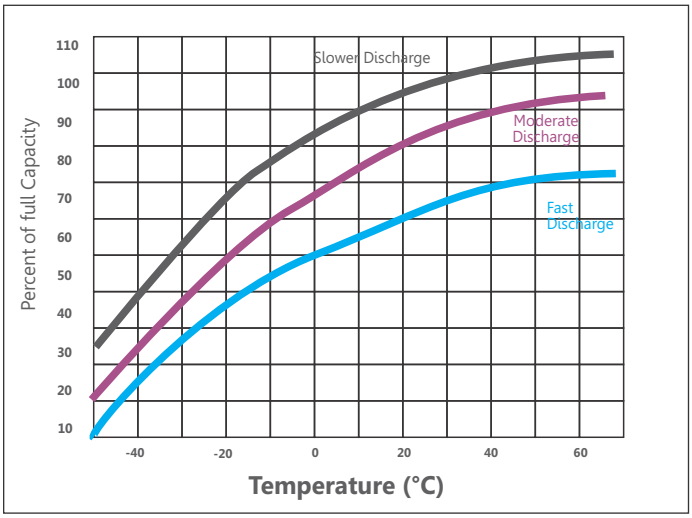
Charging Profile



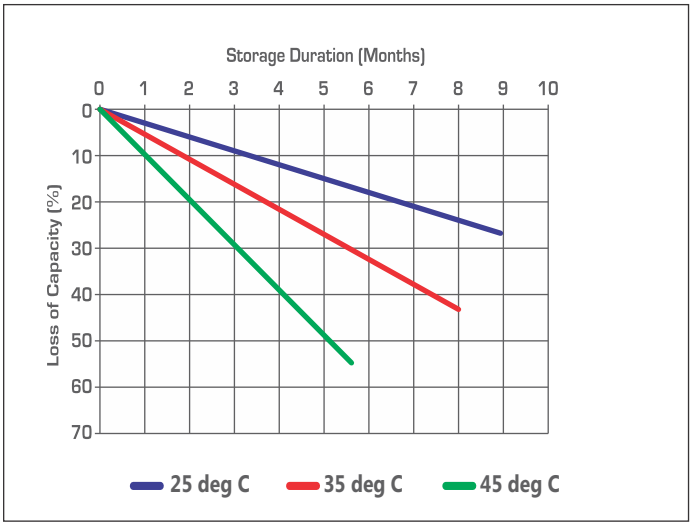
Service (Float) Life and Temperature at various rates @ 27°C

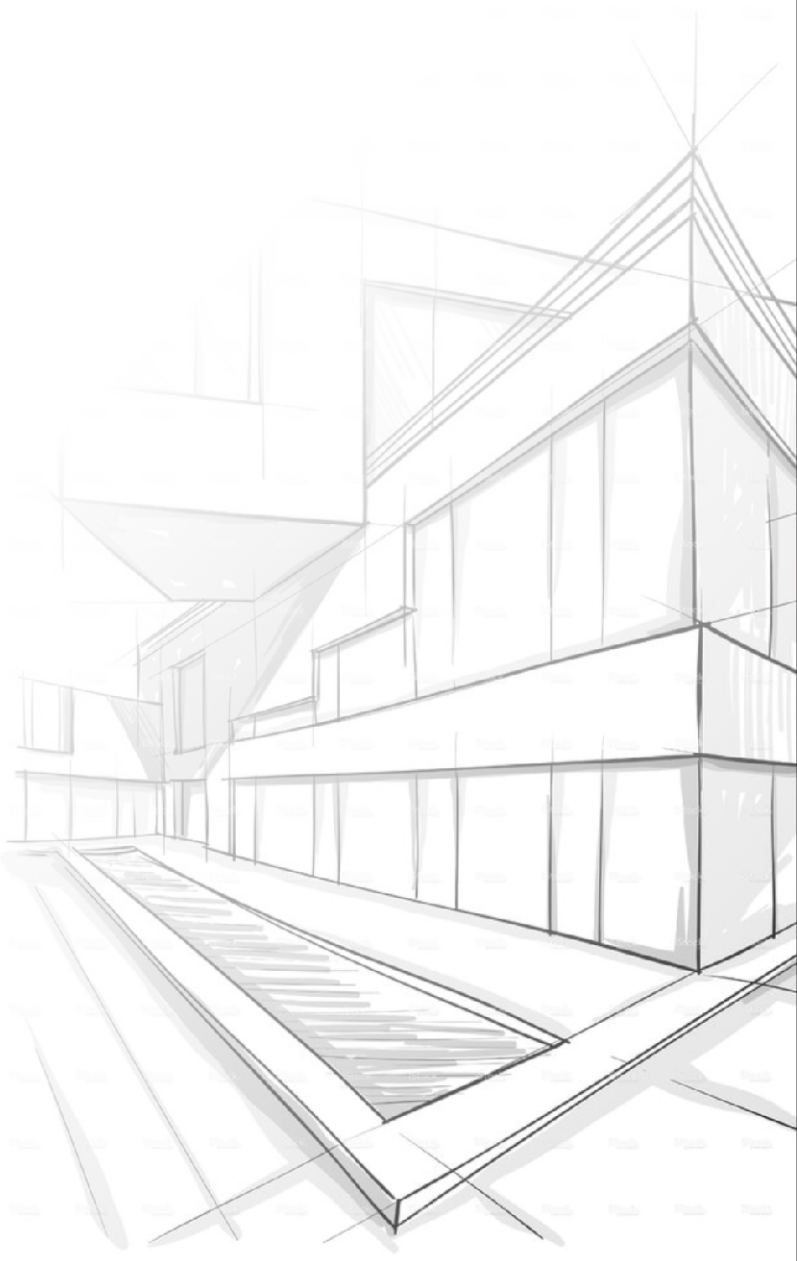


Expected Capacity vs Temperature



Self Discharge Characteristics @ Different Temperature

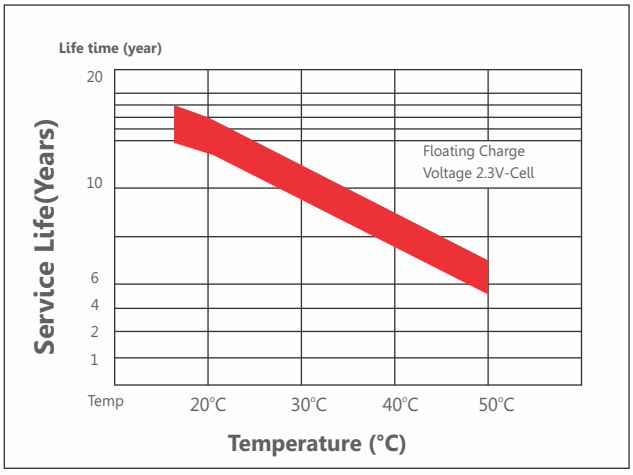




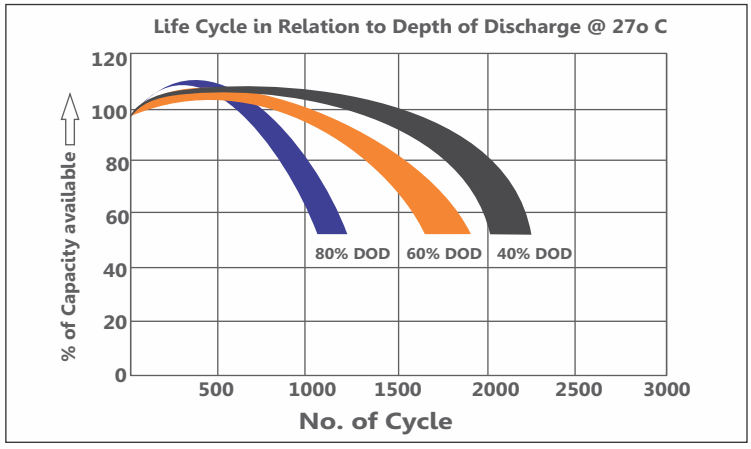
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Service (Float) Life and Temperature



Expected Life



Charging Instructions

Charger Voltage Settings (at 77° F/ 25°C)			
System Voltage	12V	24V	48V
Maximum Charge Current	As mentioned in the table on page no 2.		
Absorption Voltage	14.4	28.8	57.6
Float Voltage	13.6	27.2	54.4
Equalization Voltage	16	32	64
Do not install or charge batteries in a sealer or non- ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.			
Periodic Charge	Provide a periodic freshening charge to maintain a SOC greater level.		



* Technical Parameters are Subject to Change due to Continuous improvements and R&D



Corporate Office :
Aspiro Global Electric Pvt. Ltd.
Near Zila Sahkari Bank, Subhash Nagar, Paniyala Road, Roorkee, Haridwar, Uttarakhand, 2476
For Customer Suggestion & Complaint Call : +91-7060215095, Toll Free Number :- 1800 309 5488 E-mail : info@aspiroglobal.co.in | Website : www.aspiroglobal.co.in