

Tubular Lead Acid Battery

Tubular LA Batteries is committed towards providing you complete comfort through Battery Energy Storage and provide your appliances with backup power when it is needed.



Features of Navitas Tubular Lead Acid Battery

- **Low Maintenance**
Topping-up frequency once in 2-3 months.
- **Rechargeability**
Charging rates as low as 0.05% of the normal charging current will be adequate.
- **High Charging Efficiencies**
Ah Efficiency: In excess of 90%.
Wh Efficiency: In excess of 80%.
- **Low rate of self-discharge.**
Less than 5% per month at 30° Ambient Temperature.
- **Long Cycle Life:**
Depth of Discharge Number of Cycles 80% 1500, 50% 3000 & 20% 5000.
- **Minimum Variation of Capacity with Temperature.**
0.43% per °C at 10 hour rate as per IS 1651:1991.
- **Capacity to sustain partial state of charge.**
Can withstand partial-state of charge upto six months.
- **High Service life.**
A minimum of 6-8 years' service life is expected under normal operating if connected to Navitas Solar Hybrid Inverter which has combined mains and solar intelligent constant current charging with solar power priority during charging and backup mode.

Battery Technical Specifications

TECHNICAL SPECIFICATIONS			BATTERY MODELS					
			NT20	NT40	NT75	NT100	NT150	NT200
1	Battery Type:	Lead Acid, Flooded	√	√	√	√	√	√
2	Maintenance:	Low	√	√	√	√	√	√
3	Application:	Solar	√	√	√	√	√	√
4	Capacity :	Ah @ C ₁₀	20	40	75	100	150	200
5	Plate Type	Pos	Tubular	√	√	√	√	√
		Neg	Flat Pasted	√	√	√	√	√
6	Dimension (mm):	L X W X H (Up to Tak	260 x 175 X 220	415 X 175 X 250	515 X 185 X 255	510 X 223 X 255	510 X 192 X 420	510 X 192 X 420
7	Filled Weight	(Kg.)	13.2	24.5	32.8	38.1	60.4	70.4
8	Net Weight	(Kg.)	13.6	25.1	33.3	38.7	61.4	71.4
9	Temperature	Operating (Max)	50°C	50°C	50°C	50°C	50°C	50°C
10	Acid Level Indicator:	Float	X	√	√	√	√	√
11	Container	Polypropylene (PP)	√	√	√	√	√	√
12	Cable (mm)	Copper	X	X	X	X	16(mm2) x 1 Ft	16(mm2) x 1 Ft
	Lug (mm)	Lead coated copper	X	X	X	X	16/8 (mm2)	16/8 (mm2)
13	Full Charge (Condition)	OCV	12.48 - 12.55	12.48 - 12.55	12.48 - 12.55	12.48 - 12.55	12.48 - 12.55	12.48 - 12.55
		Sp.Gravity @27°C	1.245 ±.005	1.245 ±.005	1.245 ±.005	1.245 ±.005	1.245 ±.005	1.245 ±.005
14	Top of Charge	Close Circuit (V) (ToC)	16.15-16.20	16.15-16.20	16.15-16.20	16.15-16.20	16.15-16.20	16.15-16.20
15	Freshening Charge (A)	Approx. 7% of Capacity up to ToC-16.2 V	2 Amp	3 Amp	4 Amp	7 Amp	10 Amp	15 Amp
16	Life cycle at various Depth of Discharge	Discharge %	80		50		20	
		No. Of Cycle (Max)	1500		3000		5000	

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