



The **Wise** Choice



Low Cost Of Ownership



Low Water Loss



Easy Recovery After Idle Period



Lowest Electricity Consumption In Recharging



Less Fumes Generation



5% Extra Capacity & Backup WRT Rated Capacity

TUBULAR BATTERY (135Ah)

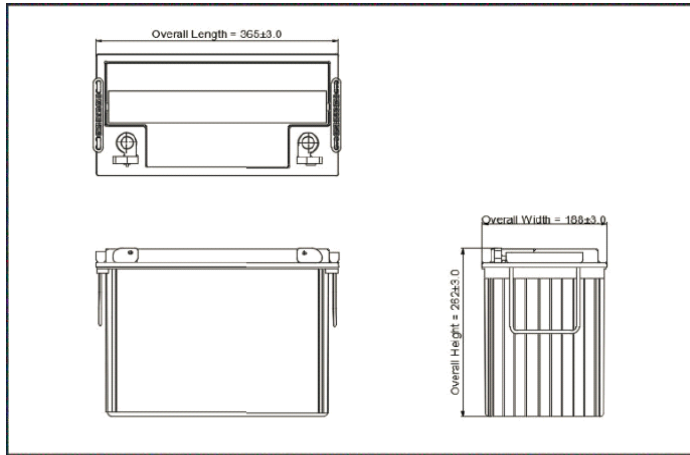


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TECHNICAL SPECIFICATION - Tubular Battery



Product Features :

1. Robust Tubular with High Pressure diecasted spine-resulting low rate of spine corrosion.
2. Spill Proof Vent plug - resulting in no spillage on top and low controlled acid fumes.
3. Optimized Negative paste recipe for fast charge acceptance.
4. consistent backup throughout life.
5. Excellent behaviour in PSOC condition as compared.
6. Low self Discharge.
7. Excellent performance on deep cycle application.
8. Very High Design & Service Life.
9. Low water loss.

Technical Specifications

Model	Nominal Voltage	Rated Capacity 20 Hr @ 27°C (Ah)	Dimensions in mm			Filled Battery Weight [Kg] [±3%]	Terminal Type
			Length (± 3 mm)	Width (± 3 mm)	Height (± 3 mm)		
EDA135	12	135	365	188	262	37.0	L

Electrical Parameters & Charging Profile

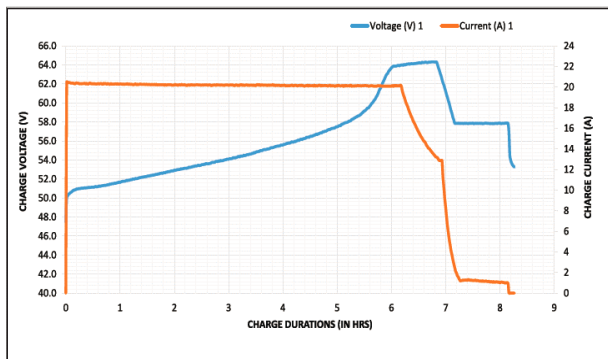
Battery Specified Capacity Test @ 27 °C					
	C20	C10	C3	C1	Energy kwh
EDA135	135	122	87	61	1.5
Ah & Wh Efficiency					
Ah Efficiency	>90%		Wh Efficiency	>75%	

**IMS Integrated Management System Certified With TUV & APAVE India
For Design & Manufacturing Of Lead Acid Battery**

TECHNICAL SPECIFICATION - Tubular Battery

- Poly Components Material :- Polypropylene Co polymer
- Watering system :- Individual to every cell in Monobloc
- Color :- Blue
- Testing Parameters :- IS 13369:1992 & IEC 60896-11 & IEC 61407-1

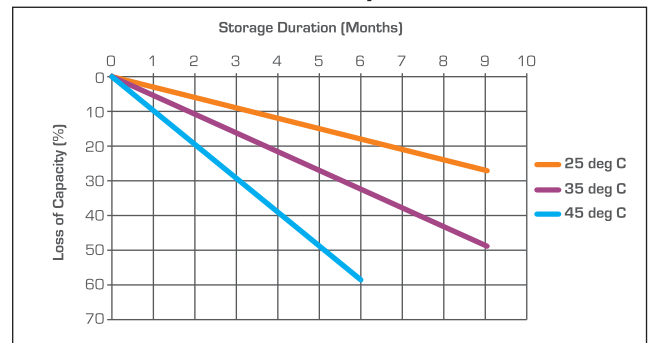
Charging Profile



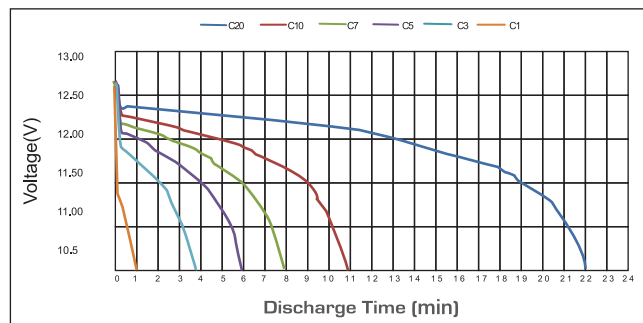
State of Charge Measure of Open-circuit Voltage @ 27°C

State of Charge	Specific Gravity	Voltage
100%	1.245-1.270	12.55V-12.75V
75%	≤ 1.225	≤ 12.4V
50%	≤ 1.190	≤ 12.1V
25%	≤ 1.155	≤ 12.0V
0%	1.120	11.8V

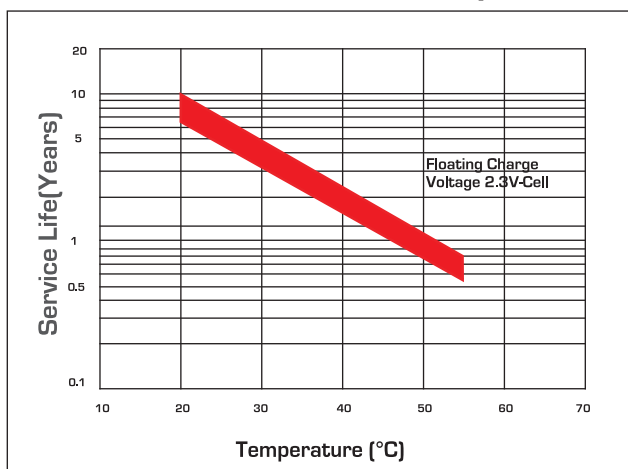
Self Discharge Characteristics @ Different Temperature



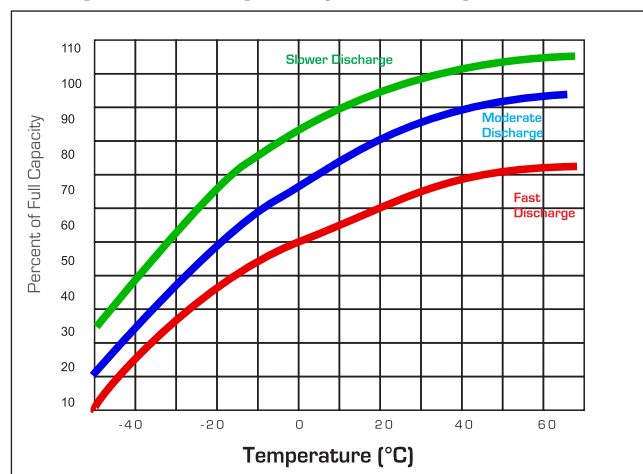
Discharging Characteristics at various rates @ 27°C



Service (Float) Life and Temperature



Expected Capacity vs Temperature



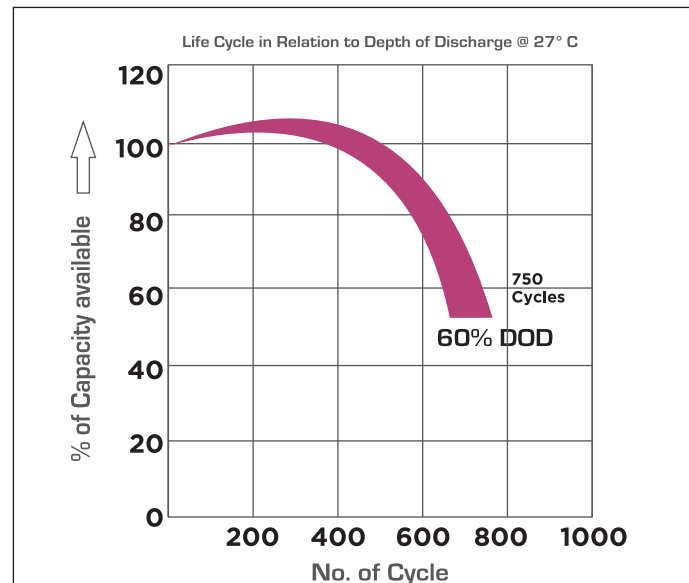
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Specific Gravity & Self Discharge w.r.t. Temperature

	Add	Subtract
CHARGING TEMPERATURE COMPENSATION	0.005 volt per cell for every 1 °C below 25°C 0.0028 volt per cell for every 1°F below 77°F	0.005 volt per cell for every 1 °C above 25°C or 0.0028 volt per cell for every 1°F above 77°F
	Operating Temperature	Self Discharge
OPERATIONAL DATA	4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	As per discharge Graph

Expected Life



Charging Instructions

Charger Voltage Settings (at 77° F/ 25°C)			
System Voltage	12V	24V	48V
Maximum Charge Current	0.2C10		
Minimum Charge Current	20 Amp		
Maximum Absorption Phase Time (hours)	4		
Absorption Voltage	14.6	29.2	58.4
Float Voltage	13.8	27.6	55.2
Equalization Voltage	16	32	64
1. 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. 2. Maximum two strings are allowed in parallel connections.			
Periodic Charge	Provide a periodic freshening charge to maintain a SOC greater than the threshold of 80%		