



TALL TUBULAR GEL BATTERY 200Ah

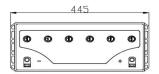


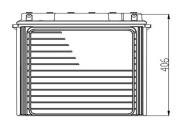


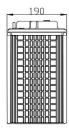
www.addonigeria.com



TECHNICAL SPECIFICATION - Tubular Gel Battery









Product Features:

- 1. Robust Tubular with High pressure diecasted spine rate of spine corrosion is very low as compare to AGM VRLA
- 2. Gelled electrolyte no stratification and no failure due to PSOC
- 3. Valve regulated no water top up during service life
- 4. Antimony free alloy longer shelf life because of very low self discharge
- 5. Very High Design & service life as compare to than AGM VRLA
- 6. Good for Cyclic & Float Applications
- 7. Wide operating Temperature Range.

Technical Specifications

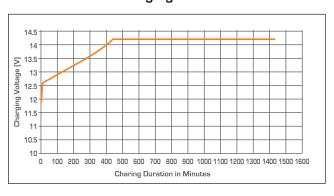
	Nominal Voltage	Rated Capacity	Dimensions in mm	nm	_Filled Batterv	/ Terminal	
Model		10 Hr @ 27°C (Ah)	Length (± 3 mm)	Width (± 3 mm)	Height (± 3 mm)	Weight [Kg] [±3%]	
EA200PT [12 V 200 AH @ C20]	12	180	445	190	406	61.8	L

Electrical Parameters & Charging Profile

3 3								
Battery Specified Capacity Test @ 27 °C								
	C20 @10.5V	C10 @10.5V	C7 @1	0.5V	C5 @10.5V	C3 @10.5V	C1 @10.5V	
EA200PT [12 V 200 AH @ C20]	200	180	16	6	150	129	90	
Ah & Wh Efficiency								
Ah Efficiency		>96%	,		Nh Efficiency	>	>84%	

- Poly Components Material :- Polypropylene Co polymer
- Color :- Blue
- Testing Parameters :- IS 13369:1992, IEC 60896-21 & IEC 61427-1

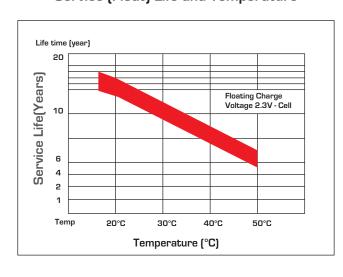
Charging Profile



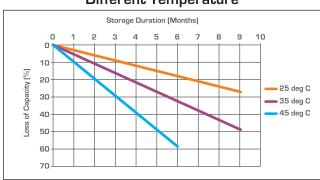
State of Charge Measure of Open-circuit Voltage @ 27°C

State of Charge	Specific Gravity	Voltage
100%	NA	12.90-13.10V
75%	NA	≤12.75V
50%	NA	≤12.45V
25%	NA	≤ 12.1V
0%	NA	11.9V

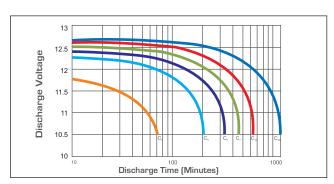
Service (Float) Life and Temperature



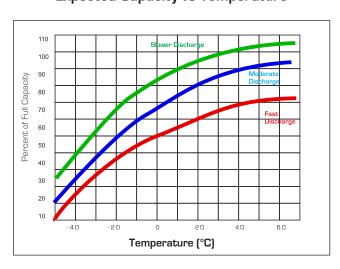
Self Discharge Characteristics @ Different Temperature



Discharging Characteristics at various rates @ 27°C



Expected Capacity vs Temperature



Battery Manufacturing Certified by Vincotte for





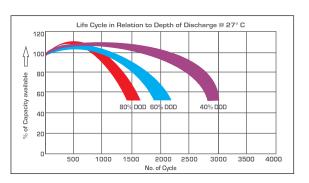




Specific Gravity & Self Discharge w.r.t. Temperature

	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			
Maximum Absorption Phase Time (hours)	4			
Absorption Voltage	14.2	28.4	56.8	
Float Voltage	13.8	27.6	55.2	
Equalization Voltage	14.8	29.6	59.2	

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 than the threshold of 70%

Eastman Gel battery testing procedure adhere IEC , CE & UL 94 test standards

Comparison in between Addo Tubular Gel & AGM Gel VRLA

S.No	Parameter	Addo Tubular Gel	AGM VRLA
1	Plate Technology	Tall Tubular Plate	Flat Pasted Plate
2	Life w.r.t Application	Excellent performance on cyclic application	Not good for deep cycle application.
3	Application	"Power Backup Solution-Solar/Inverter/UPS	"Power Back up - Inverter/UPS
		Suitable for Float Application above 1 Hour discharge rate"	Good for float & stand by application"
4	Electrolyte	Electrolyte in- Between Gel	Electrolyte in- between AGM
5	Water Loss	Negligible	Negligible
6	Water Top up	No water top up throughout Warranty Life	No water top up throughout Warranty Life
7	Life Extension	Not Applicable	Not Applicable
8	Self Discharge	Very Low < 2.0%	Very Low < 2.0%
9	Life Cycle w.r.t DOD @27° C @ 80% Dol	₃ 1500 Cycle	450 Cycle
10	Spillage	Spill-proof	Spill-proof
11	Fumes	No	No
12	Recovery in PSOC	Excellent	Low
13	Charger Settings	Generic set point for chargers	Required special set point for chargers
14	Operating Temperature Range	- `-20 Degrees to +55 Degrees	-15 Degrees to +40 Degrees
15	Terminal Type	L-Type Terminal	Stud Type Terminal

Terminal Configuration :-Terminal Type :- L Terminal Height :- 25 mm

Torque Value :- 8-10 N.m

Bolt Type: M8



Vent Plug Type :-M18 with vent valve & flame arrestor assembly

