



Solar Tubular Battery



Excellent Ampere Hour & Watt Hour Efficiency



Designed to Operate in Partial State of Charge Condition



Ultra Low maintenance

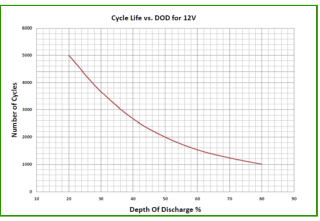


Superior Cyclic Life

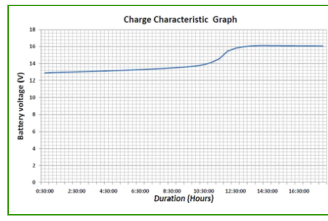
Technical Specifications

Battery Type	Nominal Voltage (V)	Rated Capacity (Ah) at 27°C		Dimensions (in mm)			Weight (Kg) +/- 5%	Constant Potential Limiting Current(Amps)	Trickle Charge (Current in mA)	
		C10 @ 1.75 Vpc	C20 @ 1.75 Vpc	Overall Height +/- 5	-3	-3			Filled	Min
EG22000	12	180Ah	200Ah	421	500	187	64.10	45	180	720

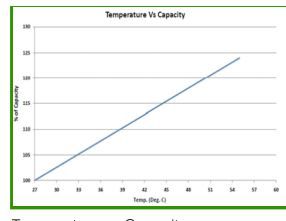
Electrical Performance



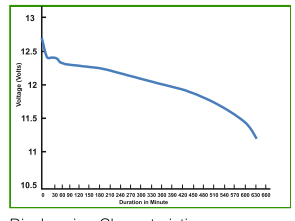
Expected Life Cycle



Charging Characteristics



Temperature vs Capacity



Discharging Characteristics



Manufactured by Exide Industries Ltd.

Technical Specifications

DESCRIPTION	PARTICULARS
Type of Battery	EG22000 12V FLOODED
Nominal Voltage	12V
Declared C20 Capacity at 27°C up to 1.75 ECV	200 Ah
STANDARDS to which battery is manufactured	As per IS13369
Expected life of battery under normal operation & maintenance conditions	Design life in ideal float condition 10 years
Loss in capacity in 28 days due to self discharge	<10 % per month (As per IS13369)
Ampere hour efficiency	> 90%
Watt hour efficiency	> 75%
Initial Charging Instructions	
a) Filling in Specific Gravity b) Rest period c) Constant potential limiting current d) Initial current input (12 % of the rated output) e) Finishing current (6 % of the rated output) f) Specific Gravity at fully charged condition g) Normal charging instructions	a) 1.220±0.005 at 27 deg. C b) 12 hrs. c) 45 Amps. d) 21.6 A upto 2.35V e) 10.8 A upto 2.75V f) 1.250±0.005 at 27 deg. C g) Recharging through inverter at constant potential mode of 14.4V with limited current as specified. After battery potential reaches 14.4V, the battery should continue in trickle charge mode at constant potential of 13.5V.
Type of plate	
Positive Plates	Robust tubular plates consisting of a lead Antimony alloy, optimized for high corrosion resistance. Alloy: Lead- Antimony (PbSb).
Negative Plates	Grid plate construction consisting of lead Antimony alloy, Alloy: Lead- Antimony (PbSb).
Type of Electrolyte	
Separators	Dilute H ₂ SO ₄
Separators	Microporous and robust PE Envelop, for electrical separation of the positive and negative plates and optimized for low internal resistance
Type of Vent and Filling Plugs	Microporous - Ceramic
Material of Container & Cover	Polypropylene co polymer
Sealing Method	Heat Sealed
Recommended Storage life of Battery (Dry shelf life)	6 Months
Operating temp. range	-20 degC to +55 degC
OCV at 100% SOC	>12.5 Volt / Battery
Allowable charging current	0.15C Charging
No. of charge-discharge cycle battery can give during its entire life at 20% DOD at 50% DOD at 80% DOD	5000 cycles 2000 cycles 1000 cycles