

SOLAR TUBULAR BATTERY

PRODUCT FEATURES:-

1. Spines are casted on high pressure die casting machines
2. High purity lead oxide is used for active material
3. Heavy durable polypropylene copolymer container
4. Less electrical resistant /high porosity tubular bag
5. High oxidation resistant /high porosity Polyethylene separator
6. Charging of batteries done on most advanced temperature controlled acid recirculation system.
7. Consistent Backup throughout life.
8. Low Self Discharge.
9. Low Water Loss.
10. Water level indicators to check electrolyte level
11. Solar Battery meets IS: 13369 specification
12. Cycle life as per (80%DOD) 1600
13. Cycle life as per (20% DOD) 5000



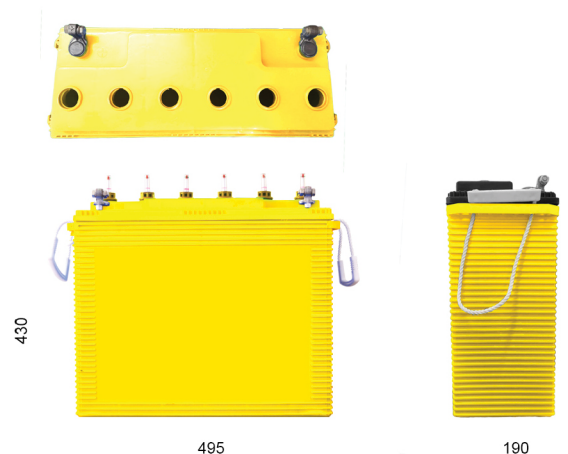
Technical Specification

Model	Nominal Voltage	Rated Capacity 10Hr @27° C (Ah)	Dimensions in mm			Filled Battery Weight (Kg) (+/- 3%)	Terminal Type
			Length (+/- 3mm)	Width (+/- 3mm)	Height (+/- 3mm)		
(12 V 200 AH)	12	200	495	190	430	65	L

Electrical Parameters & Charging Profile

Battery Specified Capacity Test @ 27°C

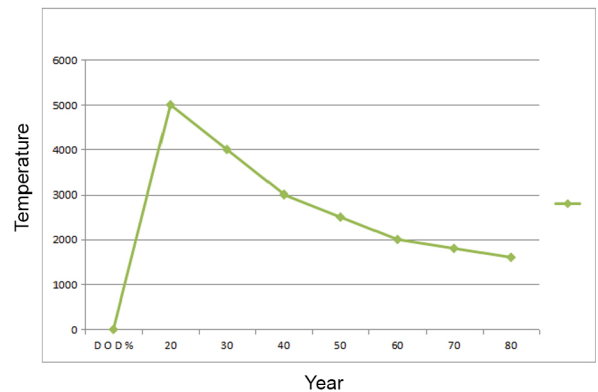
Model	C10 @ 10.5V	C5 @ 10.5V	C3 @ 10.5V	C1 @ 10.5V
(12 V 200 AH)	200	166	144	100
AH & WH Efficiency				
Ah Efficiency	>90%		Wh Efficiency	>75%



Expected Life




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

CHARGING TEMPERATURE COMPENSATION	Add	Subtract
	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
OPERATIONAL DATA	Operating Temperature	Self Discharge
	-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

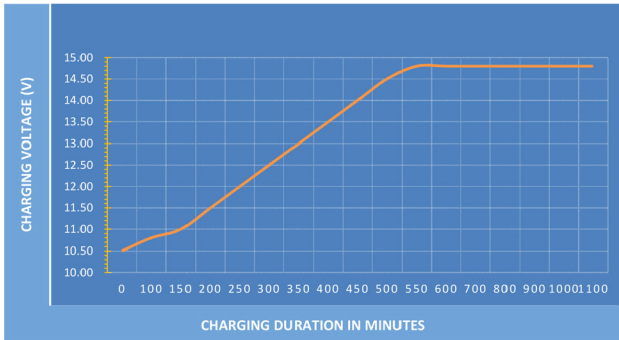


Charging Instructions

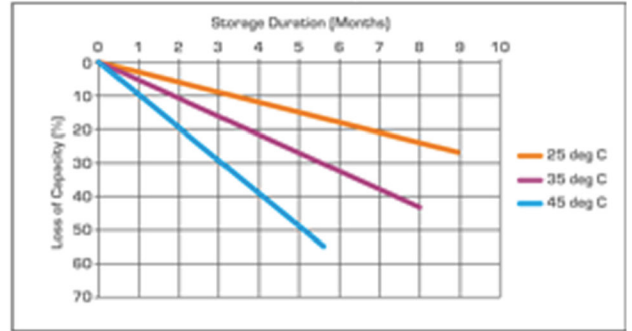
Charger Voltage Settings (at 77° F/ 25°C)			
System Voltage	12V	24V	48V
Maximum Charge Current	20 Apm		
Minimum Charging Current	4 Apm		
Absorption Voltage	14.4	28.8	57.6
Float Voltage	13.6	27.2	54.4
Equalization Voltage	16	32	64
Do not install or charge batteries in a sealer or non- ventilated compartment. 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 than the threshold of 70%		

Terminal Type :- Inverter L bolt size:M8	Water Level Indicator M30	Vent Plug Type :- M30 PP Disk
		

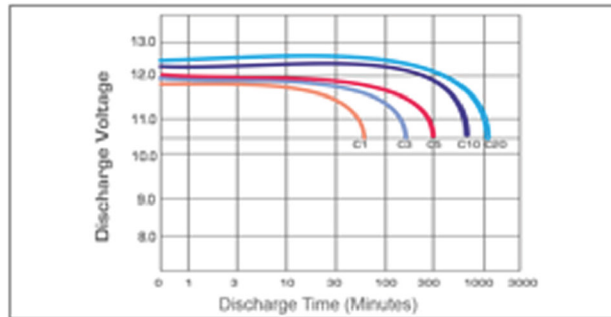
Charging Profile



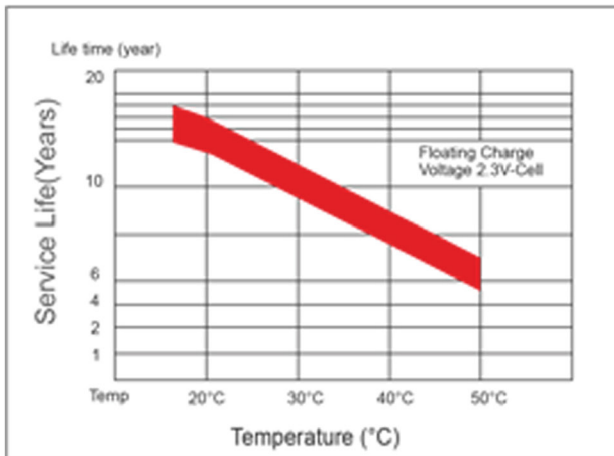
Self Discharge Characteristics @ Different Temperature



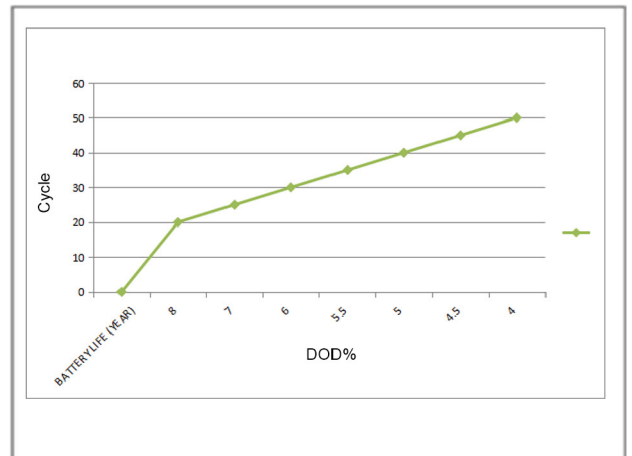
Discharging Characteristics at various rates @ 27°C



Service (Float) Life and Temperature



Expected Capacity vs Temperature



Poly Components Material :- Polypropylene Co polymer
 Watering system :- Individual to every cell in Monobloc
 Color :- Yellow & Yellow
 Testing Parameters :- IS 13369: 1992 & IEC 61427 – 1