

TECHNOPOWER SOLAR TALL TUBULAR BATTERIES

General Features

ISO 9001 ISO 14001

Avaiable is SOLAR Tubular Range TECHNOPOWER 12V low maintenance Tubular battery for Solar photovoltaic application comes with high quality Tubular plate and its performance characteristics conform to IS 13369 : 1992 with latest amendments

PPCP Container

High tensile, acid resistant Polyster Gauntlets

Low resistance Fasteners.

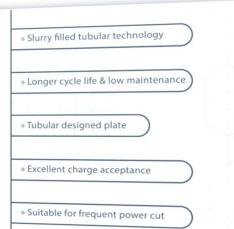
Heavy duty Terminal

Microporous Ceramic Vent Plug

High porosity Envelope Separators

Tubular Positive Plates

Pasted Negative Plates





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Model	Nominal Voltage	Rated Capacity (Ah) at 20HR (C20)	Number	Positive Plates per Battery	Negativ e Plates per Battery	Spines Numbe r	Plates Hight	Positive Plates Thicknes s	Negative Plates Thickness	T-Bag Thikness	T-Bag	Dimension s (L*H*W) ± 1mm	Dry Weight Kg. (± 1.5%)	Electrolyte Volume Kg	Filled Weight Kg.(± 1.5%)	Gross Weight Kg. (± 1.5%)
GLORY ASIT 12-165	12 V	150	7P PER CELL	18	24	15	210 MM	4.5 MM	2.8MM	8mm	200MM	25*476*22	33.36	24.9	58.26	60
GLORY ASIT 12-200	12 V	180	7P PER CELL	18	24	15	235 MM	4.5MM	3.0MM	8mm	225MM	25*476*22	37.8	23.8	61.6	63.12
GLORY ASIT 12-220	12 V	200	9P PER CELL	24	30	15	210 MM	4.5MM	2.8MM	8mm	200MM	25*476*22	41.36	23.68	65.04	66.66
GLORY ASIT 12-250	12 V	230	9P PER CELL	24	30	15	235 MM	4.5MM	3.0MM	8mm	225MM	25*476*22	46.3	23.52	69.82	71.48

Electrical Parameters	Capacity (Ah) when dischraged to 10.5V (1.75VPC) and 27C							Efficiency Charging Method (Constant Current)							Backup		
TechnoPower Model	Nominal Voltage	Rated Capacity (Ah) at 20HR (C20)		10HR (C10)	7HR (C7)	5HR (C5)	3HR (C3)	1HR (C1)	AH Efficiency	WH Efficiency	Max Charging Current	Cyclic Use (Bulk Voltage)	Standby Use	Float (Trickle) Voltage	Low Voltgage Disconnect	Backup Time at 400 Watts at 10.5V 27C ± 10 Min	Average Capacity Loss in storage per month
GLORY ASIT 12-165	12 V	150Ah	150	135	115	100	85	70	> 95%	> 82	30A	14.5V	14.2 V	13.7 V	10.5 v	3H:30M	4%
GLORY ASIT 12-200	12 V	180Ah	180	165	150	135	115	81	> 95%	> 82	36A	14.5V	14.2 V	13.7 V	10.5 v	4H:15M	4%
GLORY ASIT 12-220	12 V	200Ah	200	180	166	150	127	90	> 95%	> 82	40A	14.5V	14.2 V	13.7 V	10.5 v	4H:45M	4%
GLORY ASIT 12-250	12 V	230Ah	220	200	184	166	143	100	> 95%	> 82	45A	14.5V	14.2 V	13.7 V	10.5 v	5H:15M	4%

POSITIVES:

1.TECHNOPOWER Tubular plates are also cast with low antimony content which reduces the topping up frequency, making the battery low maintenance type. This also keeps the float charging current at a lower value, thus minimises the total energy requirement needed to keep the battery in charged condition during standby float application

2.Low rate of self discharge: < 4% PER MONTH

3.Electrolyte Level Indicator

4.Very Low Pollution and enviroment friendly

5. Acid Volume per ampere hour is 35% more than that of ordinary batteries.

Unique features:

The new GLORY AIST series is manufactured as per TECHNOPOWER proprietary unique features

1. New SLURRY Filled Tubular Plate Technology

Deep cycle Tubular Ideally designed for cyclic application: Solar systems, and Non-Solar Inverters and UPS Application

2. Ironclad Tubular Technology

- 3. Optimized Negative paste recipe for fast charge acceptance.
- 4. Purity: Highest purity LR Grade Sulphuric Acid with Least Iron content.
- 5. Microporous Ceramic Vent Plugs: Special ceramic vent plugs for controlled acid fumes.

6. "HADI" High pressure robust tubular die-cast spines at 150bar (Torr Tubular) to ensure super fine consistant grain void free structure for protecting the plate suppot from anodic corrosion, for strength, highest reliability, and higher float life.

7. Super Long life: exceeded 1500 charge/discharge cycles at 80% depth of discgarge (DOD)

8.Designed specially to withstand long and frequent power cuts

9.Super Long Backup

10.Ultra Low Maintenance

Applications:

Solar Systems: Home, Industry, street Lighting, and traffic signaling

Solar Photovoltic Power Plants

Inverters and Home UPS systems

The next generation tubular battery designed specially to withstand long and frequentpowercuts. It is the ultimate Inverter battery. In case of powercuts it acts as a backup special source for power supply.

Advantage:

Very long life • User friendly • Acid volume per ampere hour is 30% more than that of ordinary tubular batteries. It acts as a coolant and • Suited for use in areas of frequent power cuts (800 to 1000 cycles of deep discharge as against 300/400 cycles of other batteries) • Can withstand overcharge better • Less pollution, environment friendly • Ensures consistent quality

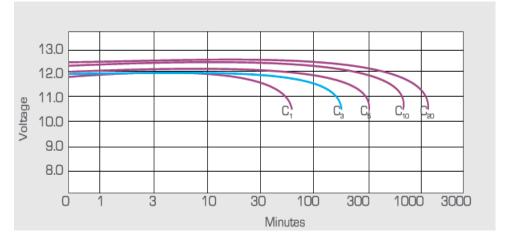
Equalization

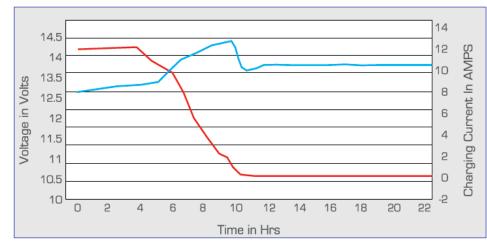
Low consant current (maximum 10% of battery capacity) till charge voltage reaches 16V to 16.5V for

equalization and fully charge

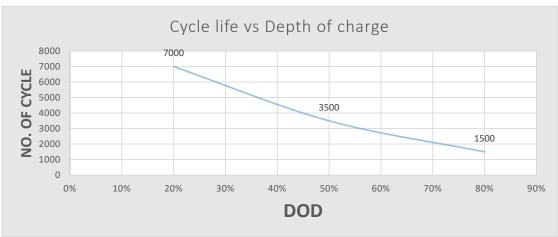
Recommended once every 6 months

DISCHARGING CHARACTERSTICS at various rates @ 27°C





Cycle life VS Depth of charge

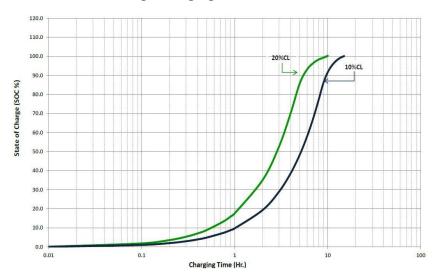


CHARGING CHARACTERSTICS

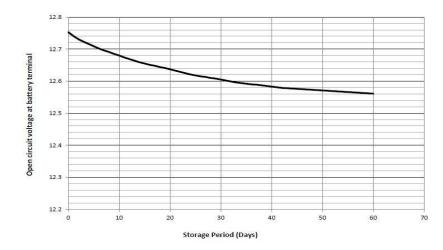
State of charge (SOC) Vs Open Circuit Voltage (V)



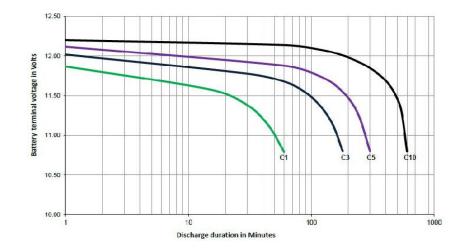
Constant voltage charging characteristics with 14.4V



Shelf Life Characteristics at 27°C



Discharge Characteristics



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