

# GULF-BATT

Tubular | SMF Batteries







- Good Electrical Performance.
- Adequate **Life**.
- Low Reserve Of Lead.
- Low Reserve Of Active Material.
- Sensitive To Active Material Shedding Which Shortens Cell **Life**.
- Sensitive To Top Bar Breakage With Significant Loss Of Plate Area.
- Sensitive To Spines Being Off Center Of The Tube With Significant Loss Of Plate Capacity.
- Superior Performance, High Reliability & Guaranteed service life
- Specially designed for arduous SPV application - Available in 12V, 6V & 2V ranges
- Intrinsically suited for regular deep cyclic duty - Superior Cycle Life
- Suit the rigors of Partial State of Charge operation
- Ultra-low maintenance
- Factory filled and charged 2V modular cells, easy handling, ready to install
- 12V LS ranges meet IS13369 & IEC 61427 specification

## FEATURES

Ready To Use : Available in fully (factory ) charged condition.

Free From Orientation Constraints : The sealed construction with immobilized electrolyte allows the battery to be installed in any position, horizontal vertical sideways – without any effect on its performance.

Eco Friendly : The unique gas was recombination technology effectively nullifies generation of gas during normal use, It is totally eco – friendly, ensuring clean and safe environment.

Minimal Voltage Drop : Since battery emits no gasses or fumes .It can be placed adjacent to the UPS system or other electronic equipment , ensuring minimal voltage drop between battery and equipment

Charge Retention & Recovery : Excellent charge retention and recovery ability due to special design of plates and separations with an absolutely balanced electrolyte

Superior High Rate Discharge : Very Low internal resistance and very high electrolyte –active material reactive interface – allows very high currents for short and medium

Good Service Life : Between 3 to 5 Years life for small and medium monoblock range (EP RANGE ) depending on cyclic / float applications

Low self Discharge : Self discharge very low as compared to conventional flooded batteries.

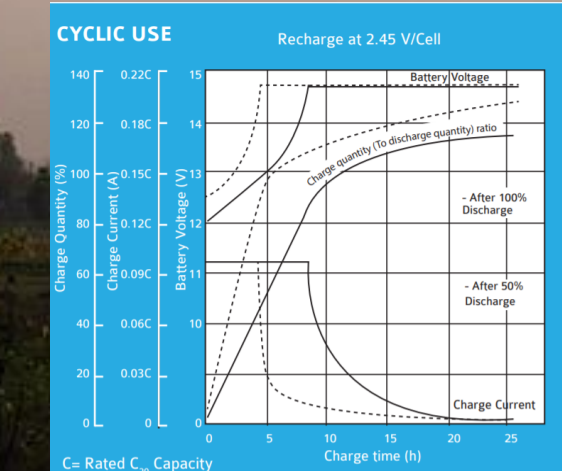
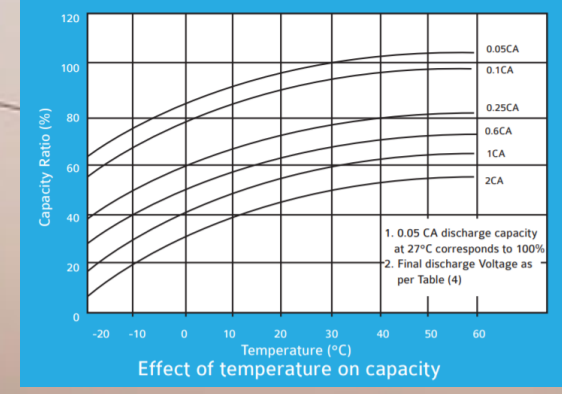
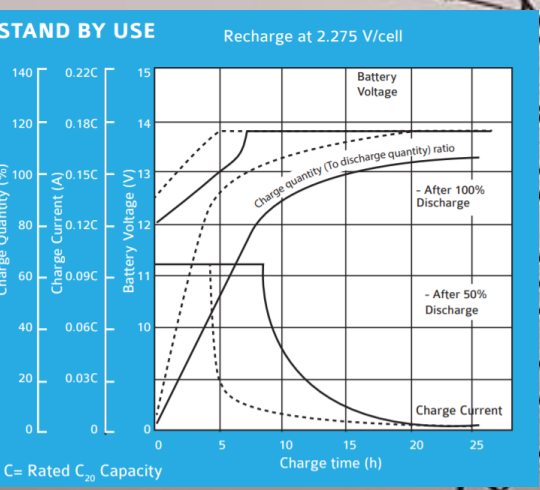
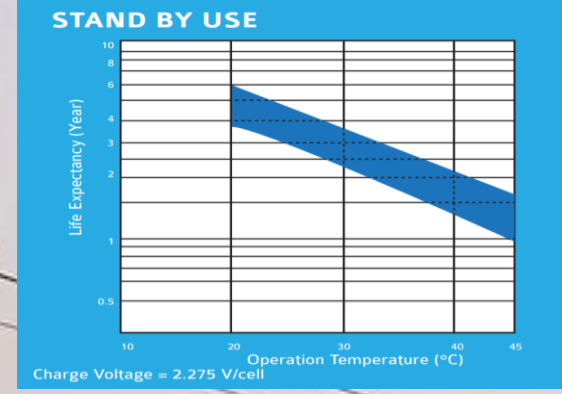
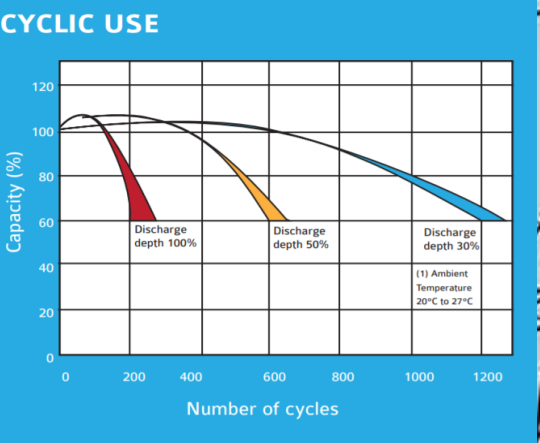
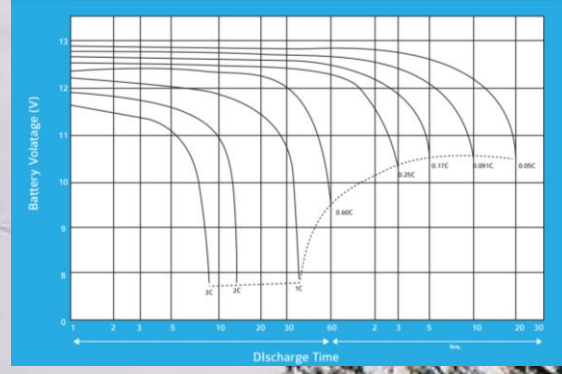
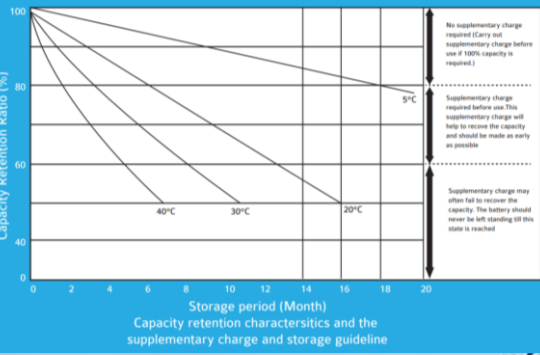
High Reliability : Tough construction and heavy duty design with superior corrosion resistant lead calcium In alloy

Sealed Maintenance Free : No need for checking Electrolyte level and topping throughout its life. Sealed Construction ensures no leakage or seepage of electrolyte from terminal or casing.

Easy Handling –Easy Installation : Lightweight and compact and commission.

## ADVANTAGE

Technology : Manufactured in technical collaboration with Shin-Kobe Electric Machinery Co. Japan, maker of world-renowned Hitachi batteries, Exide (India) Industries Ltd. is an ISO 9001 Organisation. Experience : Over 60 years accumulated Experience of Research & Development, field operation & feedback. Manufacturing Base : The only company having multilocal manufacturing units spread across the country with ultra large manufacturing capacities. Result : Factory fresh batteries, whenever and whenever you need them. VRLA batteries come in factory charged condition and thus, the fresher they are, the better. Eco - friendly Company : ISO 14001, TS 16949, OHSAS 18001 certifications. Ensuring eco-friendly production process. The only company having own smelting house and large network to collect and recycle used batteries to avoid environmental damage. Recycle Symbol : The batteries manufactured both for domestic and export are labelled with the recycle symbol. Safety Conscious : Underwriters Laboratories Inc, USA certification for the products are available as an option.



## GULF BATT Switch ON

Crafted specially for your home, the Switch On range of inverter batteries have the advantage of features like:

- Best Battery Life
- Faster Charging
- Hassle-free Performance

## FEATURES

- Designed for Long Life.
- More Electrolyte per Ampere Hour.
- Low Maintenance.
- Factory charged and ready to use condition.
- Easy to monitor State of Charge.



## Why should you choose a Tubular battery?

Tubular batteries are best fitted for long power backup requirements and have a longer service life. These batteries require minimum effort to maintain and need fewer water top-ups. They are more reliable and usually come with a longer warranty period compared to a flat plate battery. A tubular battery is more expensive and takes more space to store than a flat plate battery.

Tubular batteries come in various container sizes, and it should be selected based on the space available in the house to store the inverter battery. Also, the tubular battery price is affordable. They can be classified into short tubular (ST/TJ) and tall tubular (TT) batteries.

- Short tubular inverter battery is slightly smaller in height but wider than a tall tubular battery. It is easier to store and carry them.

- Tall tubular inverter battery is larger in height than a short tubular battery and a flat plate battery but lesser in width. A tall tubular battery always provides a slightly longer backup time and is preferred for homes where storage space is not a constraint.



## INFRASTRUCTURE

- Imported Pressure Dye Casting Machines.
- Imported Grid Casting Machines.
- Imported Fully Automatic Pasting Machine With Drying Oven.
- Automatic Curing Chambers.
- Microprocessor Control Based Plate Formation Rectifier.
- Advance Technology Fully Automatic Battery Charging.

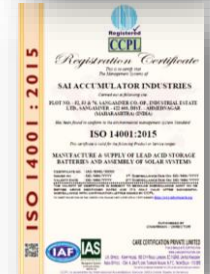
## KEY POINTS

- Ultra-low Maintenance.
- Suitable For Deep Discharge.
- Suitable For Long Power Outages.
- Recommended For Any Climates.
- More Electrolyte Per Ampere Hour.
- Long Life - 1200 Cycles\* @ 80% Dod.
- Master Range – Turbo King Inverter Battery.
- Superior Performance And High Reliability.
- Factory Charged Battery With High Current.
- Made Of Time Tested Every Turbo King Tubular Batteries.
- Tough Battery For Tough Condition With Thicker Plates.
- Suited For Regular Deep Cyclic Duty - Superior Cycle Life.

## APPLICATIONS

- Solar.
- Power Plants.
- Railway Signalling.
- Substations.
- UPS Systems.
- Telecommunication.





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**GULF BATT** tubular batteries are designed to deliver consistent and reliable power every time. Their plates are engineered to provide higher efficiency while maximizing battery life, which also ensures that the tubular battery price stays competitive. These batteries perform brilliantly in heavy duty applications and are capable of withstanding even long and frequent power cuts. The tubular batteries come in two variants, Economy and Classic, to suit distinct needs. They require minimal maintenance, owing to high acid volumes and don't get overheated. As they are resistant to corrosion, they last for a very long time.



#### QUICK TIPS FOR MAINTENANCE AND HANDLING:

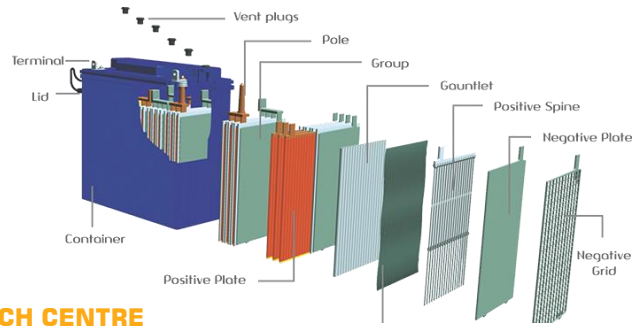
- Do not expose the battery to direct sunlight.
- Keep the battery away from heat, in a dry, cool, and ventilated space.
- Keep the battery out of the reach of children.
- Keep checking the float indicators in the battery time to time, add water top-up when required.
- Do not fill acid into the battery.
- Do not keep the battery water indicators open.
- Always get the service done by authorized service personnel only and never by a local technician.
- Be a responsible citizen. never discard the non-functional batteries into dustbins, roads.
- Always return non-functional OLD inverter batteries to any authorized distributor for recycling.



## Global Presence

Libya | Kuwait | Egypt | Morocco | Qatar | Yemen | UAE | Tunisia | Sudan  
| Oman | Syria | Saudi Arabia | Iraq | Djibouti | Mauritania | Somalia |  
Palestine | Lebanon | Afghanistan | Iran Nigeria | Ethiopia | Egypt | DR  
Congo | Tanzania | Kenya | Uganda | Sudan | Morocco | Angola |  
Mozambique | Ghana | Madagascar | Malawi | Zambia | Senegal | South  
Sudan | Libya | Congo

# Rigid CONSTRUCTION



## RESEARCH CENTRE

- HRD tester.
- Cold chamber.
- Battery line tester.
- Container testing facilities.
- Optical Emission Spectrophotometer (ORS).
- Atomic Absorption Spectrophotometer (AAS).
- Separator testing facilities Multi-channel life cycle tester.



## UNIQUE FEATURES:

- ✓ Advance Tubular Plate Technology
- ✓ Thicker & Wider Positive spines for longer life
- ✓ Special additives and optimized negative paste recipe for faster charge acceptance
- ✓ Usage of High Pure Low Antimonial Alloy for Ultra low maintenance
- ✓ High porous & Oxidation resistance gauntlet for extra back up & long life

- Alloy Spine** : Deep Dischargeable & higher life cycle due to low antimony alloy. Ultra Low Maintenance.
- Separator s** : High pressure di-casted spine which lead to less corrosion and higher life cycle. Thick Spine Die which lead to less corrosion and higher cyclic life.
- Gauntlets** : Low Electrical resistance & high porosity polyethylene material, less water loss, which leads to increase in electrical performance.
- Charging** : Improved woven gauntlets gives higher active materials utilization & higher capacity & High porosity with low electrical resistance results in better charge efficiency.
- Charging** : Automatic PLC based high precession POWERCON chargers used to optimum charging programming, data logging and monitoring through PC with help of Temp controller of water tub charging technology .

Tough DESIGN

Unlimited POWER

# Specifications



In World, most of the locations face extreme voltage fluctuations and power cuts so the use of inverters is high in demand in order to experience an uninterrupted power supply. Gulfbatt, a leading battery supplier in India provides high-quality tubular batteries at very affordable prices. Furthermore, these tubular batteries in India are designed and manufactured with the use of advanced technology and thus, making it feasible to work in extreme temperatures.

Sr.No	Model Code	AH RATING	Length	Width	Height	Gross Final Weight with +/- 2 %
			(mm)	(mm)	(mm)	
1	R100151K	100	505	190	410	52 kg
3	R353156K	150	505	190	410	56 kg
4	R405157K		505	190	410	57 kg
5	R506159K	160	505	190	410	59 kg
6	R608162K	200	505	190	410	63 kg
7	R700265K		505	190	410	65 kg
8	R801266K	220	505	190	410	66 kg
9	R902268K	240	505	190	410	68 kg
10	R1003269K		505	190	410	69 kg
11	R1104271K	270	505	190	410	71 kg
12	R1207273K		505	190	410	73 kg

Note : Given Battery Gross weight is standard and may vary +/- with respect to Specific Gravity of Acid and Weighing Scale calibrations.



## Techno-Characteristics Charts

### Product Specifications:

Operating Temperature range : -15 Deg C to +50 Deg C

Grid Alloy : 2.3 % Sb Alloy

Applicable Standard : IS 13369 : 1992

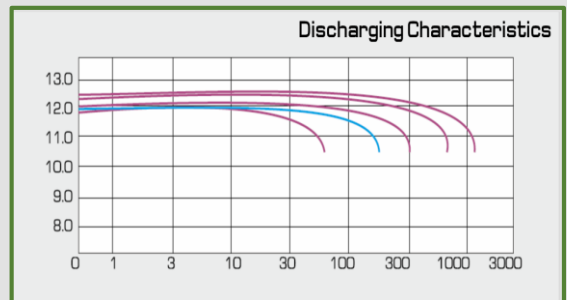
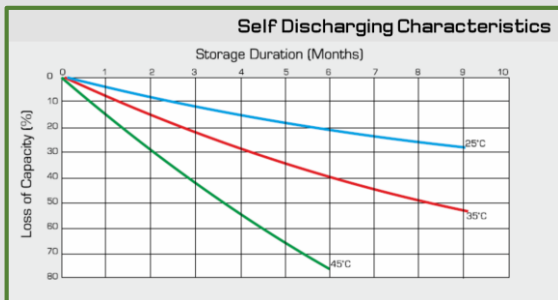
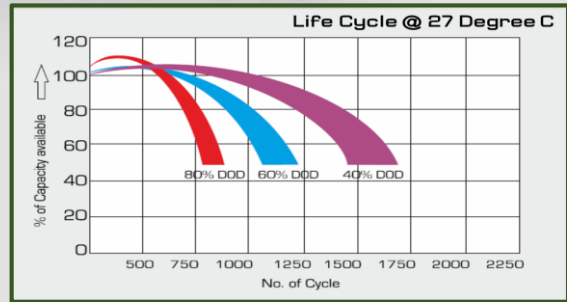
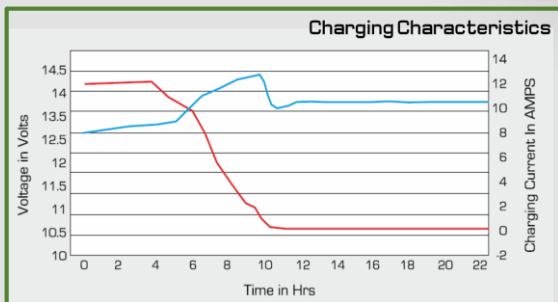
Design Cyclic Life : 1200v Cycles at 80% DOD

> 1800 Cycles at 50% DOD

> 2000 Cycles at 40% DOD @ 27 °C

Tubular POWER

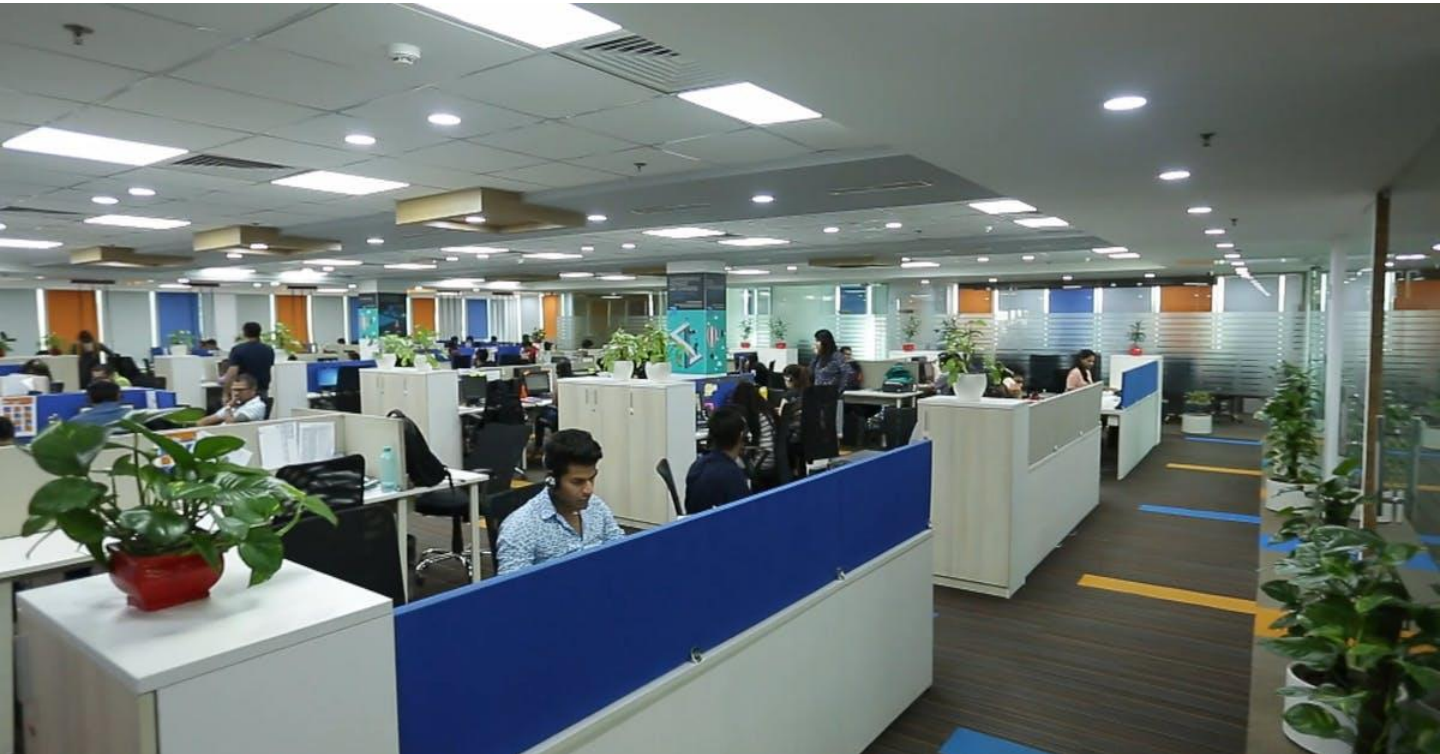
Tough DESIGN





# How to get touch with us

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Somalia | Palestine | Lebanon | Afghanistan | Iran Nigeria | Ethiopia | Egypt | DR Congo | Tanzania | Kenya | Uganda | Sudan | Morocco  
| Angola | Mozambique | Ghana | Madagascar | Malawi | Zambia | Senegal | South | Sudan | Libya | Congo