



Advanced Backup for Demanding Applications



Low Cost
Of Ownership



Low Water
Loss



Easy Recovery
After Idle Period



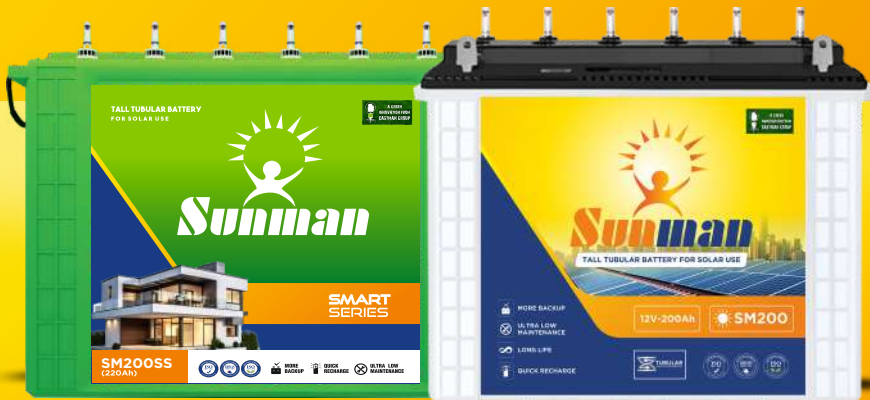
Lowest Electricity
Consumption In
Recharging



Less Fumes
Generation



5% Extra Capacity &
Backup WRT Rated
Capacity



TUBULAR BATTERIES

MADE IN INDIA

Eastman Introduction

Founded in 2006

Established in 2006, Eastman Auto & Power Limited is a well-known name in the field of solar energy, energy storage, and power electronics, boasting a USD 420 million revenue and a dedicated workforce of over 3,000 professionals. Building on the group's decades-long success and maintaining the trust of our partners, Mr. Jagdish Rai Singal ventured into the future of energy with Eastman Auto & Power Limited.

Today, the business spans over 50 countries across Asia, the Middle East, Europe, Africa, the Caribbean, Central America, North America, and South America, providing the world with cutting-edge products that have set new benchmarks in their respective segments. With products reaching more than 100 countries, we are driven by innovation to continually set industry standards, ensuring uninterrupted power supply for residential, commercial, and industrial applications.



TALL TUBULAR BATTERY

REGULAR SERIES

100Ah to 240Ah

MADE IN INDIA

For Markets: ME, CIS, AF (Including Nigeria)



Introduction

Our Regular Series tall tubular batteries, designed for durability and performance. With robust tubular construction and high-pressure die-cast spines, they offer minimal corrosion. Spill-proof vent plugs ensure a clean environment with low acid fumes.

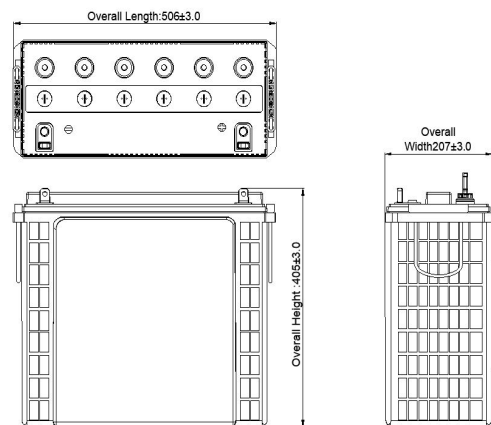
Optimized negative paste allows fast charge acceptance, ensuring reliable power. Consistent backup, excellent PSOC performance and low self-discharge. Trust our batteries for resilient and efficient power solutions.

Product Features

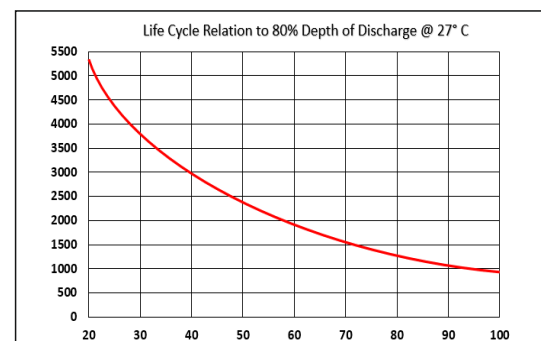
- Robust Tubular with High Pressure diecasted spine- resulting low rate of spine corrosion.
- Spill Proof Vent plug - resulting in no spillage on top and low controlled acid fumes.
- Optimized Negative paste receipt for fast charge acceptance
- Consistent backup throughout life
- Excellent behavior in PSOC condition as compare
- Low Self Discharge
- Excellent performance on deep cyclic application as compare to AGM VRLA
- Very High Design & Service Life
- Low Water Loss

Applications

Energy Storage, Backup Purpose & Home Appliances



Expected Life



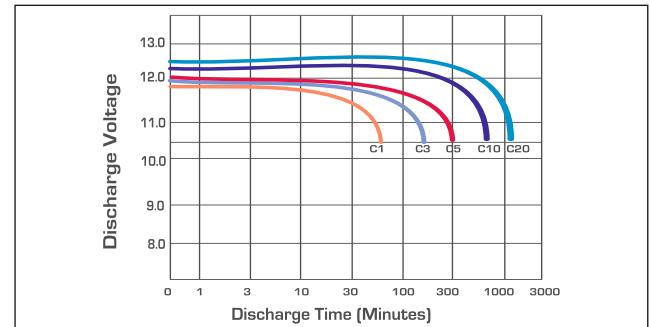
PRODUCT SPECIFICATIONS

| Model | SM-100 | SM-150 | SM-200 | SM-220 | SM-230 | SM-240 |
|----------------------|--------|--------|--------|--------|--------|--------|
| Nominal Voltage | 12 | 12 | 12 | 12 | 12 | 12 |
| Rated Capacity | 100 | 150 | 200 | 220 | 230 | 240 |
| Length(±3mm) | 506 | 506 | 506 | 506 | 506 | 506 |
| Width(±3mm) | 192 | 192 | 207 | 207 | 207 | 207 |
| Height(±3mm) | 405 | 405 | 405 | 405 | 405 | 405 |
| Gross Battery Weight | 50.3 | 56.6 | 67.6 | 68.5 | 68.5 | 72.5 |
| Terminal Type | L | L | L | L | L | L |
| AH Efficiency | >90% | >90% | >90% | >90% | >90% | >90% |

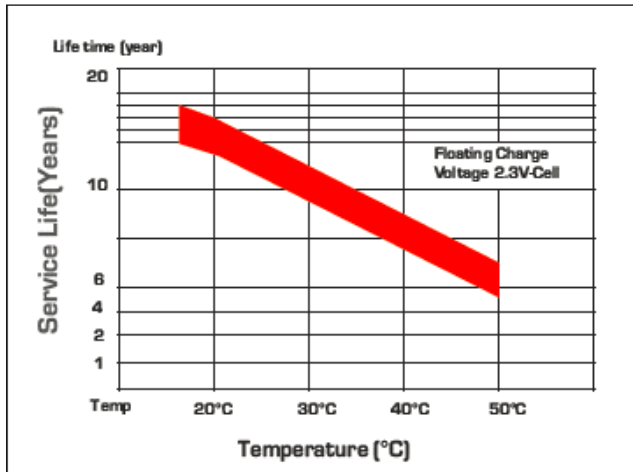
State of Charge Measure of Open-circuit Voltage @ 27°C

| State of Charge | Specific Gravity | Voltage |
|-----------------|------------------|---------------|
| 100% | 1.245-1.275 | 12.55V-12.70V |
| 75% | ≤ 1.225 | ≤ 12.4V |
| 50% | ≤ 1.190 | ≤ 12.1V |
| 25% | ≤ 1.155 | ≤ 12.0V |
| 0% | 1.120 | 11.8V |

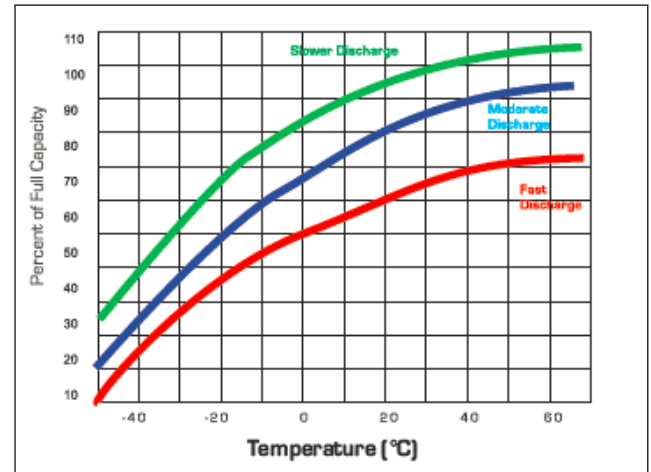
Discharging Characteristics at various rates @ 27°C



Service (Float) Life and Temperature



Expected Capacity vs Temperature



IMS Integrated Management System Certified with TUV & APAVE India for Design & Manufacturing of Lead Acid Battery



Comparison in Between SUNMAN TTC & AGM VRLA

| S.No | Parameter | Sunman Tall Tubular Conventional | 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 suitable for float application above 1 Hours discharge rate | Power Backup Inverter/UPS suitable for float application and Stand by application |
| 4 | Electrolyte | Free Flow Electrolyte | Electrolyte in Between AGM |
| 5 | Water Loss | Low | Negligible |
| 6 | Water Top up | Low Water Top | No water Top up required |
| 7 | Life Extension | Long life with regular water top up | Not Applicable |
| 8 | Self Discharge | Low < 3.0% | Very Low < 2.0% |
| 9 | Life Cycle w.r.t. 80% DOD@27°C | 1300 cycles | 450 Cycles |
| 10 | Recovery in PSOC | Excellent | Low |
| 11 | Charger Setting | Generic set point for charger | Required special set point for chargers |
| 12 | Operating Temperature Range | - 20 Degrees to + 55 Degree | - 15 Degrees to + 40 Degree |
| 13 | Terminal type | L- Type Terminal | Stud Type Terminal |

Terminal Configuration:-

Terminal Type:- L
Terminal Height :- 24mm
Torque Value :- 8-10 N.m
Bolt Type:-M8



Vent Plug Type : M22 Coin Type



Vent Plug Type : M30 Dummy Plug





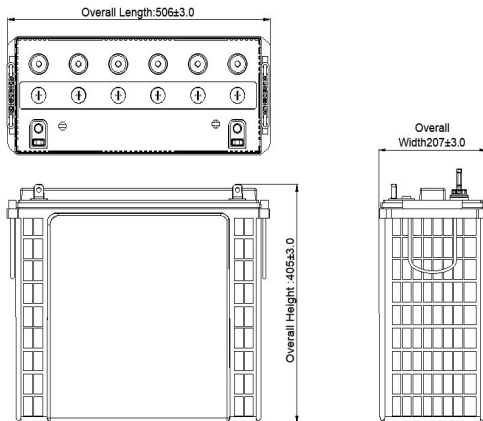
TALL TUBULAR BATTERY

DIAMOND SERIES

240Ah to 400Ah

MADE IN INDIA

For Markets: ME, CIS, AF (Including Nigeria)



Introduction

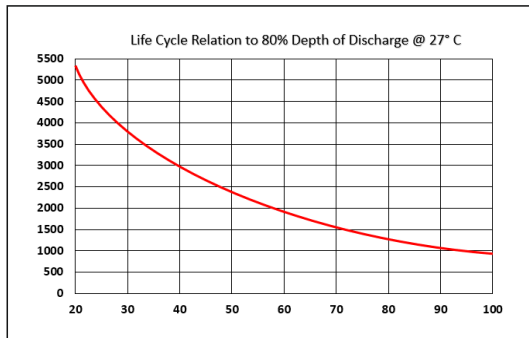
Our Diamond Series tall tubular batteries, engineered for unmatched reliability and performance. With robust tubular design and high-pressure die-cast spines, they ensure minimal corrosion. Spill-proof vent plugs prevent spillage and minimize acid fumes, maintaining a clean environment.

Optimized negative paste allows fast charge acceptance, ensuring consistent backup. These batteries excel in PSOC conditions, feature low self-discharge, and offer superior performance in deep cyclic applications. Trust the Diamond Series for reliable power solutions in every scenario.

Product Features

- Spill Proof Vent plug - resulting in no spillage on top and low controlled acid fumes.
- Optimized Negative paste receipt for fast charge acceptance
- Consistent backup throughout life
- Robust Tubular with High Pressure diecasted spine- resulting low rate of spine corrosion.
- Excellent behavior in PSOC condition as compare
- Low Self Discharge
- Excellent performance on deep cyclic application as compare to AGM VRLA
- Very High Design & Service Life
- Low Water Loss

Expected Life



Applications

Energy Storage, Backup Purpose & Home Appliances

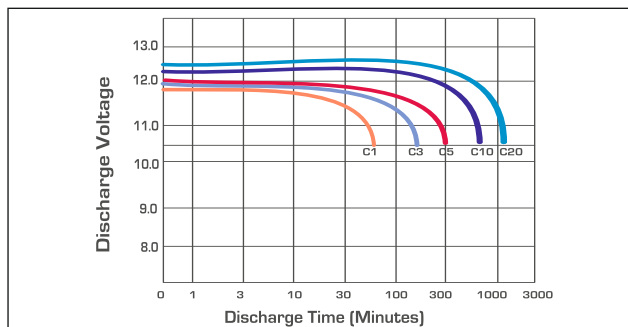
PRODUCT SPECIFICATIONS

| Model | SM-240D | SM-270D | SM-300D | SM-400D |
|----------------------|---------|---------|---------|---------|
| Nominal Voltage | 12 | 12 | 12 | 12 |
| Rated Capacity | 240 | 270 | 300 | 400 |
| Length(±3mm) | 506 | 506 | 506 | 560 |
| Width(±3mm) | 207 | 207 | 207 | 228 |
| Height(±3mm) | 405 | 405 | 405 | 431 |
| Gross Battery Weight | 67.6 | 73.8 | 67.6 | 105.8 |
| Terminal Type | L | L | L | L |
| AH Efficiency | >90% | >90% | >90% | >90% |

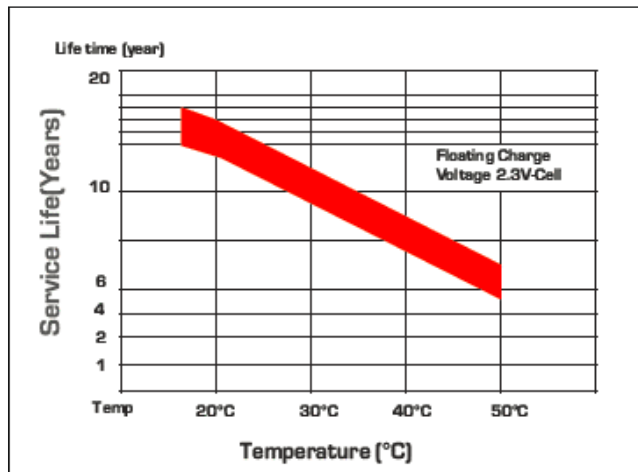
State of Charge Measure of Open-circuit Voltage @ 27°C

| State of Charge | Specific Gravity | Voltage |
|-----------------|------------------|---------------|
| 100% | 1.245-1.275 | 12.55V-12.70V |
| 75% | ≤ 1.225 | ≤ 12.4V |
| 50% | ≤ 1.190 | ≤ 12.1V |
| 25% | ≤ 1.155 | ≤ 12.0V |
| 0% | 1.120 | 11.8V |

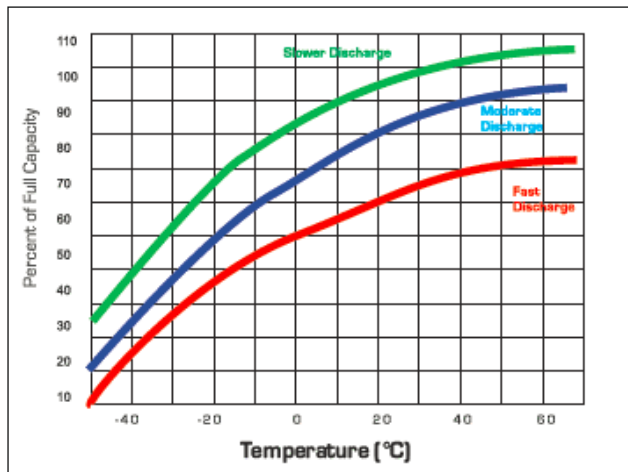
Discharging Characteristics at various rates @ 27°C



Service (Float) Life and Temperature



Expected Capacity vs Temperature



IMS Integrated Management System Certified with TUV & APAVE India for Design & Manufacturing of Lead Acid Battery



Comparison in Between SUNMAN TTC & AGM VRLA

| S.No | Parameter | Sunman Tall Tubular Conventional | 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 suitable for float application above 1 Hours discharge rate | Power Backup Inverter/UPS suitable for float application and Stand by application |
| 4 | Electrolyte | Free Flow Electrolyte | Electrolyte in Between AGM |
| 5 | Water Loss | Low | Negligible |
| 6 | Water Top up | Low Water Top | No water Top up required |
| 7 | Life Extension | Long life with regular water top up | Not Applicable |
| 8 | Self Discharge | Low < 3.0% | Very Low < 2.0% |
| 9 | Life Cycle w.r.t. 80% DOD@27°C | 1800 cycles | 1200 Cycles |
| 10 | Recovery in PSOC | Excellent | Low |
| 11 | Charger Setting | Generic set point for charger | Required special set point for chargers |
| 12 | Operating Temperature Range | - 20 Degrees to + 55 Degree | - 15 Degrees to + 40 Degree |
| 13 | Terminal type | L- Type Terminal | Stud Type Terminal |

Terminal Configuration:-

Terminal Type:- L
Terminal Height :- 24mm
Torque Value :- 8-10 N.m
Bolt Type:-M8



Vent Plug Type : M55 Coin Type



Vent Plug Type : M30 Dummy Plug



TALL TUBULAR BATTERY

200Ah

MADE IN INDIA

For Markets: ME, CIS, AF (Including Nigeria)

SMART SERIES



Introduction

Our Smart Series tall tubular batteries, engineered for reliability and efficiency. With a robust tubular design and spill-proof vent plugs, they ensure durability and safety. Their optimized negative paste allows fast charge acceptance, providing consistent backup throughout their long service life.

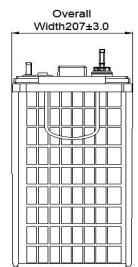
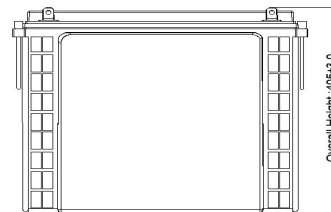
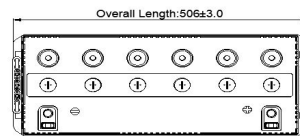
With minimal water loss and low self-discharge rates, the Smart Series offers reliable power for critical applications. Trust the Smart Series for superior performance and longevity.

Product Features

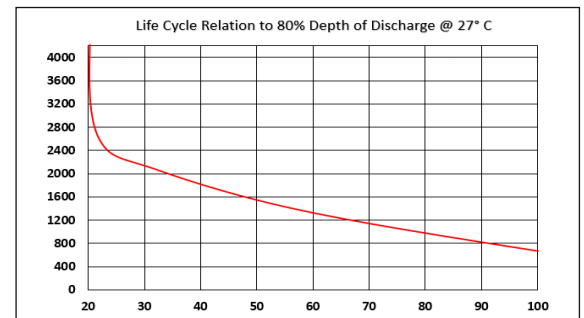
- Delivers best quality of power equivalent to the grid power.
- PDC plates: Worry free superior performance with least battery maintenance.
- Tower type TT container, ensuring more than 20% extra electrolyte, ensuring lesser topping up frequency & better thermal management.
- More active surface area for better utilization of material, result in more backup.
- Excellent behavior in PSOC condition as compare.
- Ability to withstand long and frequent power outages.
- Excellent performance on deep cyclic application.
- Provided with 6 nos. free float indicators for ease of battery maintenance.
- Low water loss.

Applications

Energy Storage, Backup Purpose & Home Appliances



Expected Life



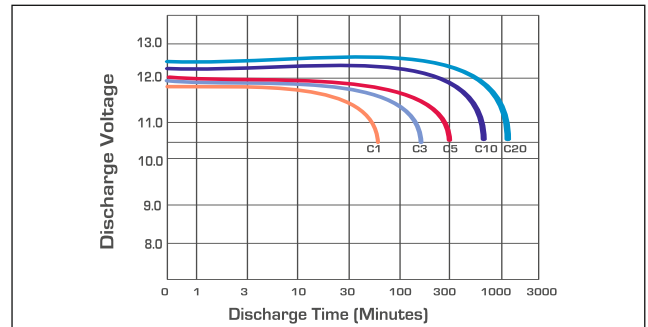
PRODUCT SPECIFICATIONS

| Model | SM-200SS |
|----------------------|----------|
| Nominal Voltage | 12 |
| Rated Capacity | 200 |
| Length(±3mm) | 506 |
| Width(±3mm) | 207 |
| Height(±3mm) | 405 |
| Gross Battery Weight | 64 |
| Terminal Type | L |
| AH Efficiency | >90% |

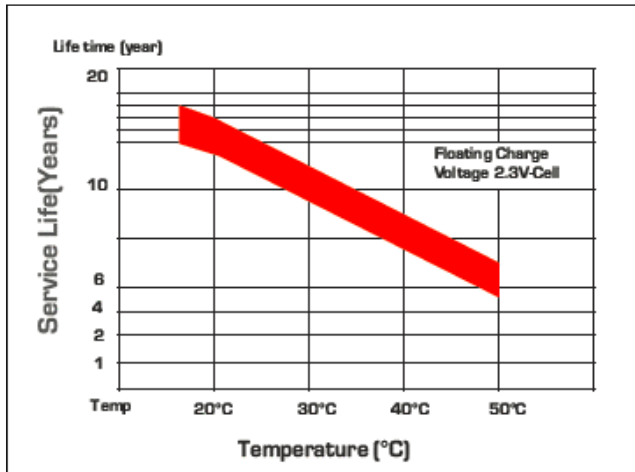
State of Charge Measure of Open-circuit Voltage @ 27°C

| State of Charge | Specific Gravity | Voltage |
|-----------------|------------------|---------------|
| 100% | 1.245-1.275 | 12.55V-12.70V |
| 75% | ≤ 1.225 | ≤ 12.4V |
| 50% | ≤ 1.190 | ≤ 12.1V |
| 25% | ≤ 1.155 | ≤ 12.0V |
| 0% | 1.120 | 11.8V |

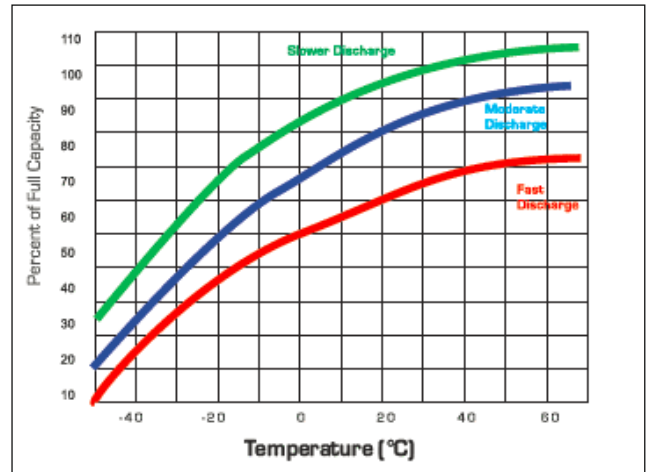
Discharging Characteristics at various rates @ 27°C



Service (Float) Life and Temperature



Expected Capacity vs Temperature



IMS Integrated Management System Certified with TUV & APAVE India for Design & Manufacturing of Lead Acid Battery



Comparison in Between Sunman TTC & AGM VRLA

| S.No. | Parameter | Sunman Tall Tubular Conventional | 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 suitable for float application above 1 Hours discharge rate" | "Power Backup Inverter/UPS suitable for float application and Stand by application" |
| 4 | Electrolyte | Free Flow Electrolyte | Electrolyte in Between AGM |
| 5 | Water Loss | Low | Negligible |
| 6 | Water Top up | Low Water Top | No water Top up required |
| 7 | Life Extension | Long life with regular water top up | Not Applicable |
| 8 | Self Discharge | Low < 3.0% | Very Low < 2.0% |
| 9 | Life Cycle w.r.t. 80% DOD@27 °C | 800Cycle | 400 Cycle |
| 10 | Recovery in PSOC | Excellent | Low |
| 11 | Charger Setting | Generic set point for charger | Required special set point for chargers |
| 12 | Operating Temperature Range | - 20 Degrees to + 55 Degree | - 15 Degrees to + 40 Degree |
| 13 | Terminal type | L- Type Terminal | Stud Type Terminal |

Terminal Configuration:-
Terminal Type:- L
Terminal Height :- 24mm
Torque Value :- 8-10 N.m
Bolt Type:-M8



Vent Plug Type : M55 Coin Type



Vent Plug Type : M30 Dummy Plug





www.eastmanworld.com
marketing@eastmanworld.com
+971 547337330

AMPS MIDDLE EAST FZ LLC
#703, 7TH Floor, Deira Twin Tower,
Baniyas Square, Deira, Dubai (UAE)

EASTMAN AUTO & POWER LTD.
572, Udyog Vihar, Phase-V, Gurugram,
Haryana - 122016, India

Follow us on »  @eastman_world  @EastmanWorld  @EastmanWorld