

SEALED MAINTENANCE FREE VRLA AGM BATTERIES

THE REVOLUTIONARY
BATTERY
TECHNOLOGY
NOW IN INDIA



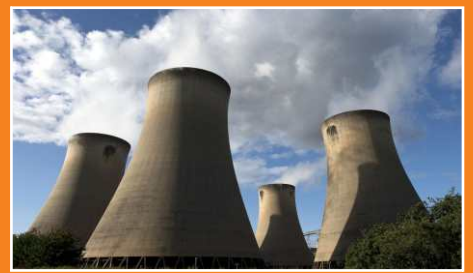
APPLICATIONS



Telecommunications



Oil and Gas



Power Plants



UPS



Railways



Data Centre

EPSILON 

Powering
the Future

Salient Features of the Product :



- ▶ Maintenance Free VRLA AGM technology. No topping up ever.
- ▶ Designed for long Life.
- ▶ Capable for deep cycling.
- ▶ Ready to use - factory charged batteries.
- ▶ Eco Friendly - clean and safe environment.
- ▶ Low self-discharge.
- ▶ Excellent charge acceptance and charge retention.
- ▶ Non-spillable.
- ▶ Easier to handle.
- ▶ Faster Charging – can charge up to at 0.25C.



Grid

Manufactured with state of art designed machines for best corrosion resistance alloy for enhanced cyclic life.

Alloy

Specialized alloy for best cyclic performance even at elevated temperatures.

Paste

Specially Deigned Tetra Base paste formula to enhance the cyclic Life.

Container

Polypropylene with ribbed construction for better heat dissipation and better heat sealing strength.

Positive Plate

Flat pasted Plates are made with high corrosion resistant Lead alloy to withstand the deep discharge and cyclic life characteristics.

AGM Separators

Specially made High porosity Absorptive Glass Mat Separators for the reliable performance.

Electrolyte

Electrolyte filled with additives for improved temperature performance.

Module

Improved modular enclosure design for better Heat dissipation.

EPSILON

**Powering
the Future**

SUPPLIED IN FILLED AND CHARGED CONDITION - 100% capacity on first discharge

Standard series in PPCP container (Flame retardant UL 94 V0 with LOI>28% is optional) with Powder coated MS modules.

Performance

Design Float Life:

20 Years Design life at 27°C on full float.

Design Cycle Life:

1250 Cycles at 80% Depth of Discharge at 27°C.
2100 Cycles at 50% Depth of Discharge at 27°C.
4200 Cycles at 20% Depth of Discharge at 27°C.

Conforming Standards:

IEC 60896-21 & 22
IEC 61427

Operating Temperature:

-20°C to +50°C
(Optimum life can be obtained at 27°C)

Operation

Float Application:

Charge: 2.250 ± 0.005 V/cell at 27°C Boost.
Charge: 2.300 ± 0.005 V/cell at 27°C Charge.
Current Limit: up to 0.30C Amps Max.

Cyclic Application:

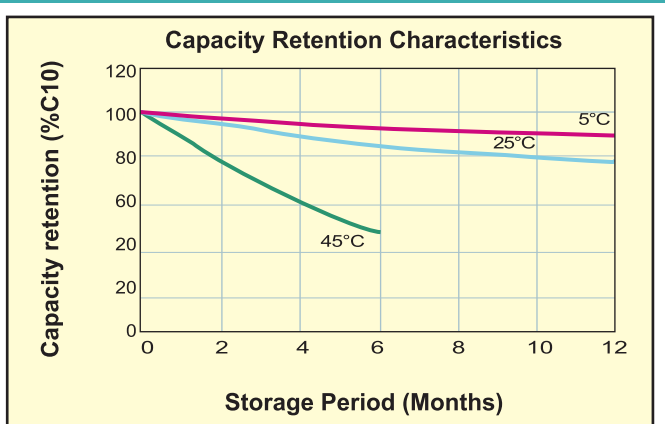
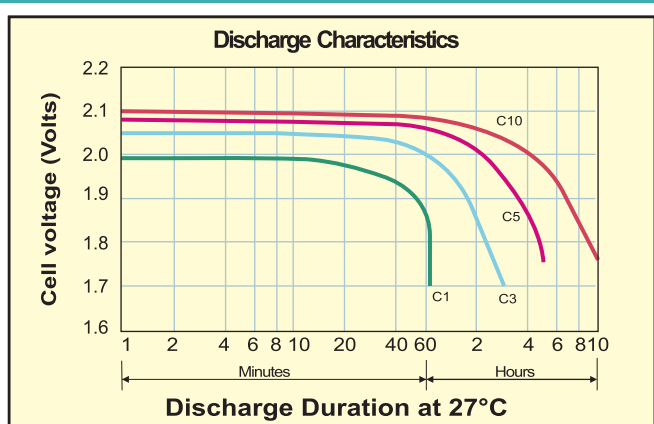
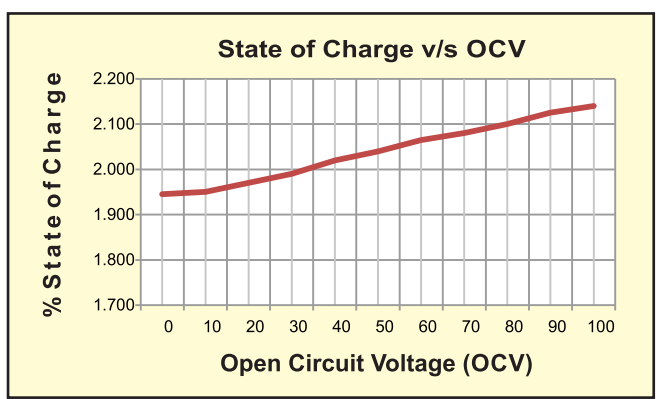
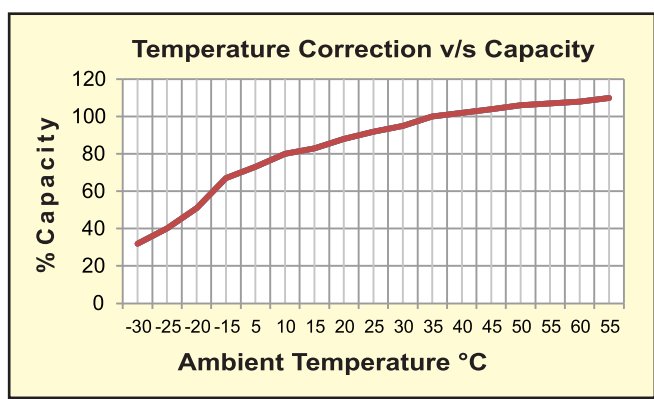
Charge: 2.270 ± 0.005 V/cell at 27°C Boost.
Charge: 2.350 ± 0.005 V/cell at 27°C Charge.
Current Limit: up to 0.30C Amps Max.

Charger Setting:

Chargers of constant potential type with temperature compensation and current limit feature are to be used.

AC Ripple:

Ripple current shall not exceed 3% RMS w.r.t batteries nominal capacity.
Ripple voltage shall not exceed 1% RMS w.r.t batteries nominal voltage rating.



Benefits

Cell Type	Rated Capacity @ 10 hour rate to 1.75V per cell at 27°C	Nominal Module Voltage	Discharge Current in Amperes to 1,75V per Cell							Module Weight in Kg (±5%)	Module Dimensions in mm (± 10 mm)		
			10 Hr. Rate	8 Hr. Rate	5 Hr. Rate	3 Hr. Rate	2 Hr. Rate	1 Hr. Rate	30 Min. Rate		Length	Width	Height (overall)
C-TEL 200	200	12	20	29	42	62	82	130	175	105	700	515	230
C-TEL 300	300	12	30	36	52	77	102	162	219	155	700	515	230
C-TEL 400	400	12	40	48	70	103	136	216	350	180	700	515	375
C-TEL 600	600	12	60	72	104	155	204	324	438	270	700	515	375
C-TEL 800	800	6	80	96	139	206	272	432	584	200	700	515	296
C-TEL 1000	1000	6	100	120	174	258	340	540	730	215	700	515	296

Nominal Capacity is at a discharge rate of 10 hours to an end cell voltage for discharge rate of 10 hours to an end Cell voltage of 1.75 voltage 27°C . Dimensions and weights given are for basic module only.

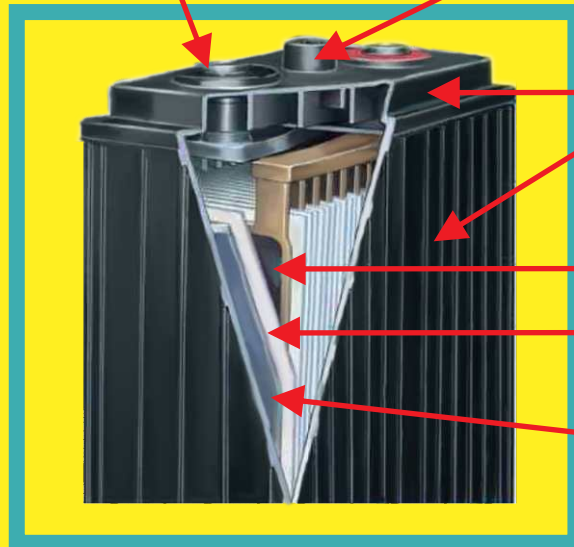
Dimensions given are as per horizontal stacking arrangement. The battery modules can be stacked to different combinations of height and length depending on space availability, specific configuration and floor loading requirement.

Other special design and configurations of battery systems for specific application shall be provided on request. The above table is not exhaustive. Cells of intermediate capacities are also available.

In accordance with its policy of continuous improvement the company reserves the right to change specifications and designs without notice. Illustrations, data, dimensions and weights given in this brochure are for guidance only.

Construction

Terminal
(Specially designed for sustained high current discharges).



Flame Arresting Vent Plug housing the safety valve (Explosion-proof, self resealing and pressure regulating).

Container & Lid made of High grade polypropelene Co-polymer (PPCP).

Positive Plate (Lead calcium tin alloy grid for low corrosion & low self discharge rates).

Separator (Double layer, High Density nonwoven Absorptive Glass Mat with excellent porosity).

Negative Plate (Lead calcium tin alloy grid providing low corrosion & maintenance free characteristics).