

Technical Particulars

DOCREF: IAE/ TP-AS/2016-17; Rev: 00

Battery Particulars

- Battery Type : Maintenance Free Valve Regulated Lead Acid (MF-VRLA)
- *Battery Rating*** : 12V-170Ah at C10 to 1.75ECV @ 27°C**
12V-170Ah at C10 to 1.80ECV @ 27°C **
- Volts/Module : 12 Volts
- Module dimensions (L X W X H) : (556 X 126 X 320) ± 5mm

Charge Regime

- Batteries shall be charged in constant potential mode with current limit
- Float charging voltage : 13.5 volts per module @ 27°C
- Boost charging voltage : 13.8 volts per module @ 27°C
- Current limit (CL) : Max. 25% of the rated capacity
- Recommended Voltage Compensation : For every 1°C raise in temperature, reduce the float voltage by 0.003VPC & vice versa, ensure the extension of temperature sensor up to the battery

Product Details

- AH efficiency : Above 95%
- WH efficiency : Above 85%
- Self Discharge/Month : < 3% of rated capacity at 27°C
- Designed Float Life at 27°C : > 12 years
- Operating temperature : -40°C to +60°C
- Recommended Max period of storage : 6 months from the date of dispatch before first use and battery should be stored in a covered area at 27°C
- Material of container : Flame retardant V0 container & cover
- Type of separator : Highly absorbent Micro porous spun glass matrix (AGM)
- Type of +ve & -ve plates : Flat pasted
- Life of battery at 27°C (Approx.) : 1800+ cycles at 20 % DOD
(OR)
900+ cycles at 50 % DOD
(OR)
500+ cycles at 80 % DOD

Applicable Standards:

- Batteries generally conforms to : IEC 60896-21&22: 2004 Standards

**** Batteries may have the initial capacity range between 90 to 95% on the rated capacity when delivered. This will raise to 100% capacity after few charge / discharge cycles as per the IEEE - 485 clause no: 6.2.4 std.,**