

## Technical Datasheet

DOC REF: IAE/TDS-AST/2018-19; Rev: 00



### **Battery Particulars:**

- Battery Type : Ultra Low Maintenance Tubular Batteries
- Battery Rating : 12V/180AH to 1.80 ECV @ C<sub>10</sub> at 27°C
- Manufacturers Cell Designation : 12ASTT180
- Nominal Voltage/module : 12 volts
- Module dimensions (L x W x H\*) : (500 x 189 x 398\*) ± 3mm
- Module weight : 63.0 Kg ± 5%

\* Height upto top of cover (Height including float indicators shall be around 446 ± 3mm)

### **Charging parameters**

: Constant Potential & Current limit charging

Charge Provision	Charge Voltage @ 27°C	Minimum charging current (Amps)
Dual Mode Charge:		
Float Charge setting	14.4 ± 0.1V	0.1C of rated Ah
Boost Charge setting	15.0 ± 0.1V	0.1C of rated Ah
Single Mode Charge:		
Fixed Voltage Charge	14.7 ± 0.1V	0.1C of rated Ah
Over Cut-off Voltage		15.2V
Under Cut-off Voltage		10.8V



### **Product Details:**

- Type of +ve plate : Tubular
- Type of -ve plate : Flat Pasted
- Operating Temperature Range of battery : -20°C to +60°C
- Terminal Type : L-Terminal with Antimony Lead Alloy
- Self-Discharge for 28 days : ≤5% (As per IS13369, requirement is ≤10%)
- Recommended Max period of storage : Max. 60 days at 27°C
- Material of Container : Poly propylene co-polymer (PPCP)
- Type of separator : PE
- Electrolyte specific gravity of the end charge @ 27°C : 1.24
- Electrolyte specific gravity of the end discharge : 1.13

### **Applicable Standards**

Batteries generally conforms to

- IS 13369 spec.
- IS 16270 spec.



**Authorized signature**

COM-SFS-00