

**VRLA / SLA Battery series** is designed with AGM (Absorbent Glass Mat). In High Performance Plate with Anticorrosion Powder in Purify Electrolyte. Innovation Design of Fully Maintenance Free in Float Life 5 years. This is Highly Suited to Backup Applications in UPS/EPS, Security Alarm System, Emergency Light and other applications

## Feature

- Smart UPS Battery Design up to 10%
- Battery Capacity 18Ah / 700W-5min
- AGM/SLA - Seal Lead Acid Battery
- Maintenance Free Battery Operation
- Non-Spillable Construction Design
- ABS container & Cover UI94HB-0
- Safety Value in explosion proof
- CE & UL Product Certification
- ISO9001 & ISO14001 Certified Factory

## Application

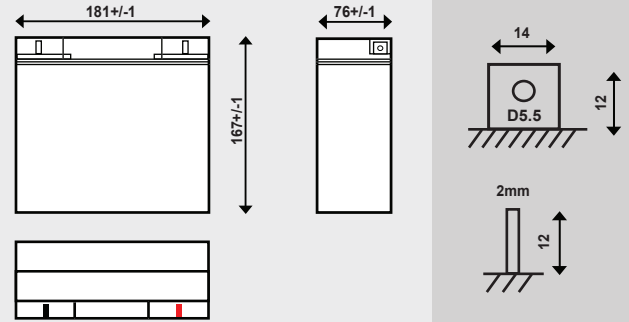
- UPS & EPS
- Emergency System
- Communication Eq.
- Security System
- Control Equipment
- Solar System
- Medical Equipment
- Cable TV & CCTV



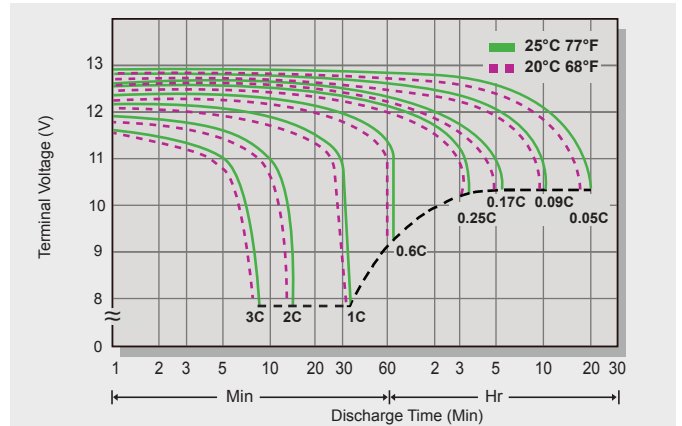
## Specifications

|                      |                     |                     |
|----------------------|---------------------|---------------------|
| Voltage Normal       | : 12 VDC            | in 6 Cell           |
| Capacity @20Hr       | : 18.0Ah            | @0.90A/ 10.9W       |
| @ 5Hr                | : 16.4Ah            | @3.06A/ 35.5W       |
| @ 1Hr                | : 12.2Ah            | @11.3A/ 128W        |
| @15min               | : 8.9Ah             | @33.1A/ 387W (*UPS) |
| @ 5min               | : 5.5Ah             | @62.6A/ 703W (*UPS) |
| Max. Discharge       | : 250A              | @14C                |
| Max. Charge Current  | : 5.40A             | @0.3C               |
| Internal Resistance  | : Apporx. 15 mΩ     | Full Charge at 25°C |
| Design Float Life    | : 5 years           | at 25 °C            |
| Cycle Lift Service   | : 1500 cycles       | at DOD 25%          |
| Float Charge Voltage | : 14.4-15.0V        | (-30mV/°C) at 25°C  |
| Cycle Charge Voltage | : 13.5-13.8V        | (-20mV/°C) at 25°C  |
| Operation Temp.      | : Normal            | 25+ / -3 °C         |
|                      | : Discharge         | -15 - 50 °C         |
|                      | : Charge            | -15 - 50 °C         |
|                      | : Storage           | -15 - 50 °C         |
| Self Discharge       | : more than 6 Month | at 25°C             |
| Terminal             | : T14-M5            |                     |
| Container Material   | : ABS UL94 HB-0     | (Option : UL94V-0)  |
| Physical             | : 181x76x167mm      | - 5.5 Kgs           |

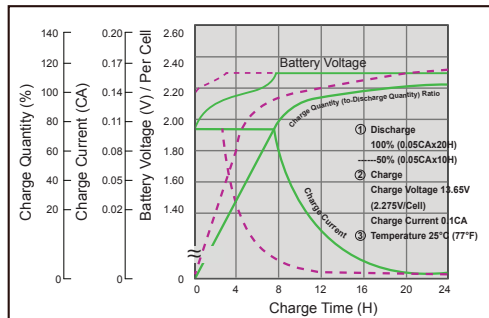
## Dimension 181x76x167mm Weight = 5.5kgs @T12m5



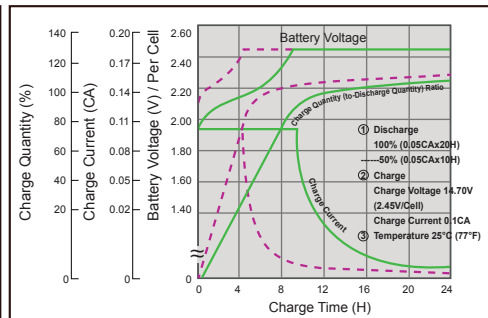
## Terminal Voltage (V) and Discharge Time



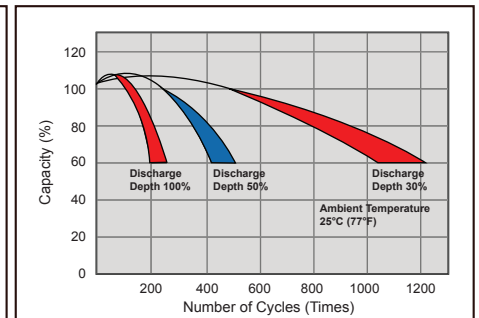
## Battery Voltage and Charge Time for Standby Use



## Battery Voltage and Charge Time for Cycle Use



## Cycle Service Life



## Constant Current(Amp) and Power (Watt/Box) Discharge Table

### VRLA-Battery Performance : %DOD, Constant Current, Constant Power (25°C / 10.2 F.V.)

| Discharge Time | 5 Min | 10Min | 15Min | 20Min | 30Min | 60Min | 2Hr   | 3Hr   | 5Hr   | 10Hr  | 20Hr  |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| %DOD           | 29%   | 40%   | 46%   | 48%   | 52%   | 63%   | 68%   | 78%   | 85%   | 87%   | 100%  |
| Cons. Current  | 62.6A | 43.2A | 33.1A | 26.2A | 18.7A | 11.3A | 6.12A | 4.68A | 3.06A | 1.56A | 0.90A |
| Cons. Power    | 703W  | 508W  | 387W  | 288W  | 216W  | 128W  | 75W   | 52.5W | 35.5W | 19.5W | 10.9W |

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