

## EDC6-335 (6V 335Ah)

### Specifications

|                                  |   |                                |
|----------------------------------|---|--------------------------------|
| Nominal Voltage                  | 6V  |                                |
| Nominal Capacity(20 Hr)          | 335Ah   |                                |
| Dimension                        | Length  | 295±1mm( 11.62 inches)         |
|                                  | Width   | 178±1mm( 7.01 inches)          |
|                                  | Container Height  | 346±1mm( 13.62 inches)         |
|                                  | Total Height (With terminal)  | 350±1mm(13.78 inches)          |
|                                  | Approx Weight   | Approx46kgs(101.42 lbs)        |
| Design life                      | 1 g ·kf ·12 years (in standby applications)   |                                |
| Terminal                         | DT  |                                |
| Container Material               | ABS   |                                |
| Rated Capacity                   | 335.0Ah/16.75A  | (20hr, 1.75V/Cell, 25 °C/77°F) |
|                                  | 300.3Ah/30.03A  | (10hr, 1.80V/Cell, 25 °C/77°F) |
|                                  | 275.0Ah/55.0A   | (5hr, 1.75V/Cell, 25 °C/77°F)  |
|                                  | 183.5Ah/183.5A  | (1hr, 1.60V/Cell, 25 °C/77°F)  |
| Max. Discharge Current           | 2000A(5s)   |                                |
| Internal Resistance              | Appro≤2.2mΩ   |                                |
| Operating Temp. Range            | Discharge: -20 °C~50 °C   |                                |
|                                  | Charge: 0 °C~40 °C  |                                |
|                                  | Storage: -20 °C~50 °C   |                                |
| Nominal Operating Temp. Range    | 25±3 °C(77±5°F )  |                                |
| Cycle Use                        | Initial Charging Current Less than 45.0 A. Voltage 7.2V-7.45V at 25°C (77°F). Temp. coefficient -20mV/C   |                                |
|                                  | No limit on Intital Charging Current Voltage 6.8V-6.9V at 25°C (77°F) Temp. Coefficient -20mV/C   |                                |
| Standby Use                      | 40 °C( 104°F ) 103%   |                                |
| Capacity affected by Temperature | 25 °C( 77°F ) 100%  |                                |
|                                  | 0 °C( 32°F ) 86%  |                                |
|                                  | EDC series batteries may be stored for up to 6 months at25 °C(77°F ) and then a freshening charge is required. For higher temperatures the time interval will be shorter. |                                |



### Application

- ◆ All purpose
- ◆ Uninterruptable Power Supply(UPS)
- ◆ Electric Power System(EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and securitysystem
- ◆ Electronic apparatus & equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto controlsystem

### Constant Current Discharge (Amperes) at 25 °C ( 77F )

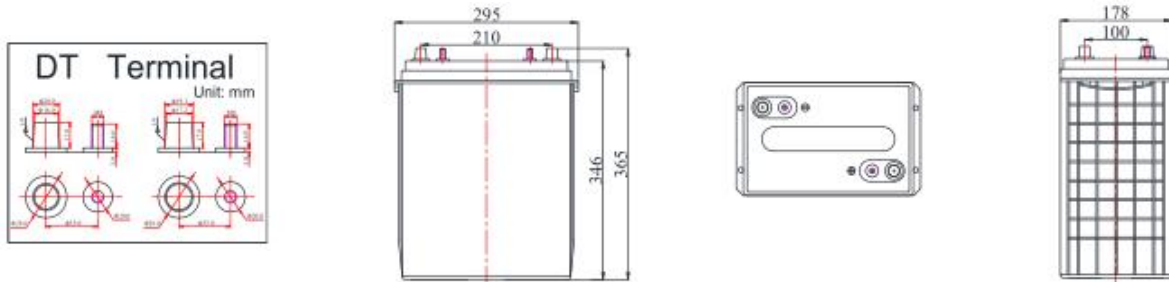
| F.V/Time | 15min | 30min | 45min | 1h    | 2h    | 3h   | 5h   | 8h   | 10h   | 20h   | 100h |
|----------|-------|-------|-------|-------|-------|------|------|------|-------|-------|------|
| 1.60V    | 424.7 | 271.3 | 199.3 | 183.5 | 116.5 | 81.8 | 55.4 | 36.6 | 32.67 | 17.49 | 3.96 |
| 1.67V    | 417.1 | 266.3 | 195.7 | 179.9 | 114.2 | 80.2 | 54.5 | 36.0 | 32.01 | 17.16 | 3.89 |
| 1.70V    | 409.2 | 261.4 | 192.1 | 176.6 | 112.2 | 78.9 | 53.5 | 35.3 | 31.35 | 16.83 | 3.80 |
| 1.75V    | 401.6 | 256.4 | 188.4 | 173.3 | 109.9 | 77.2 | 52.5 | 34.7 | 31.02 | 16.50 | 3.73 |
| 1.80V    | 386.1 | 246.5 | 181.2 | 166.7 | 105.6 | 74.3 | 50.5 | 33.3 | 30.03 | 16.34 | 3.66 |

### Constant Power Discharge (Watts) at 25 °C ( 77F )

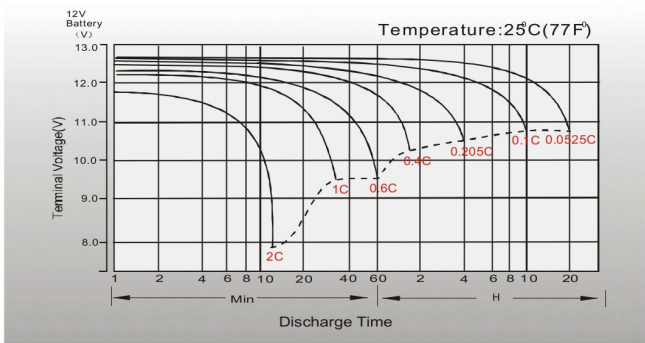
| F.V/Time | 15min | 30min | 45min | 1h    | 2h    | 3h    | 5h    | 8h   | 10h  | 20h  | 100h |
|----------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1.60V    | 817.4 | 522.1 | 383.8 | 352.1 | 223.7 | 157.1 | 106.9 | 70.3 | 63.0 | 34.1 | 7.62 |
| 1.67V    | 802.6 | 512.5 | 376.5 | 345.8 | 219.8 | 154.4 | 104.9 | 69.3 | 61.7 | 33.4 | 7.46 |
| 1.70V    | 787.7 | 502.9 | 369.6 | 339.2 | 215.8 | 151.5 | 103.0 | 68.0 | 60.7 | 33.2 | 7.33 |
| 1.75V    | 772.9 | 493.4 | 362.7 | 333.0 | 211.5 | 148.5 | 101.0 | 66.7 | 59.4 | 32.7 | 7.19 |
| 1.80V    | 743.2 | 474.5 | 348.8 | 320.1 | 203.6 | 142.9 | 97.4  | 64.0 | 57.1 | 31.7 | 7.06 |

## EDC6-335 (6V 335Ah)

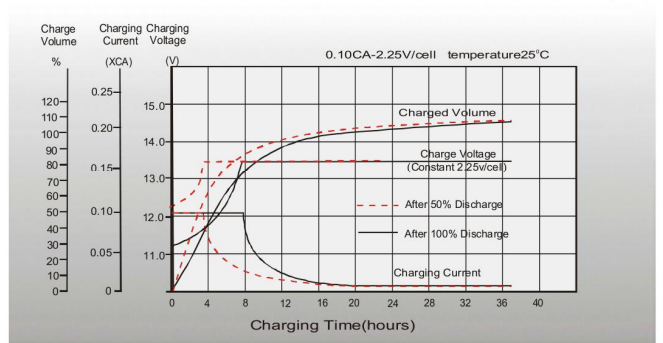
### Dimensions



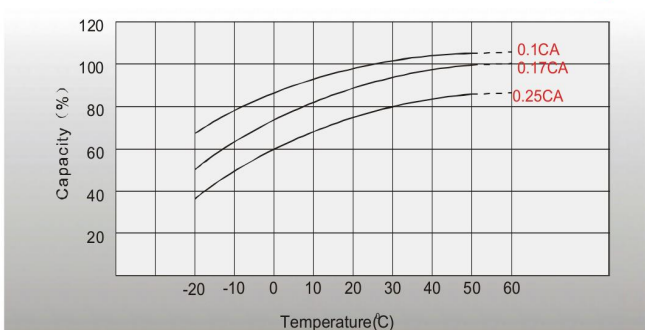
### Discharge Characteristics



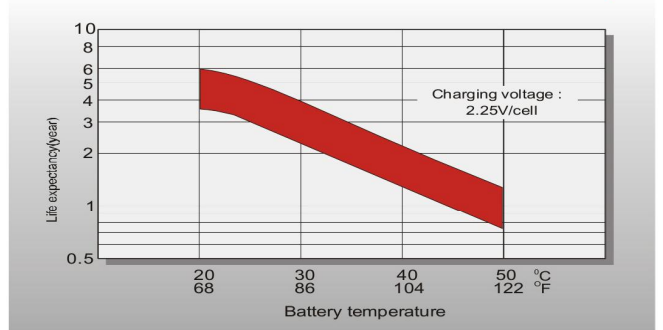
### Float Charging Characteristics



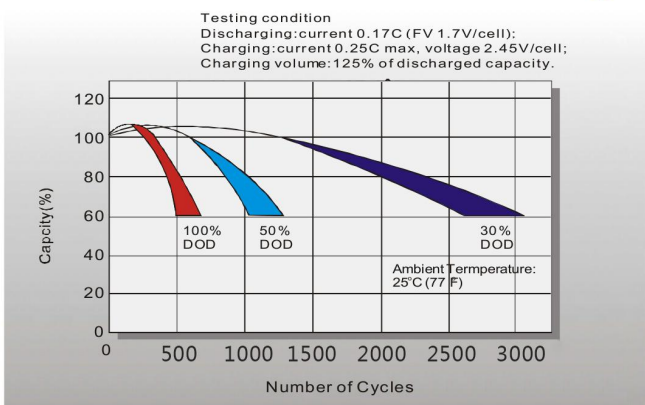
### Temperature Effects in Relation to Battery Capacity



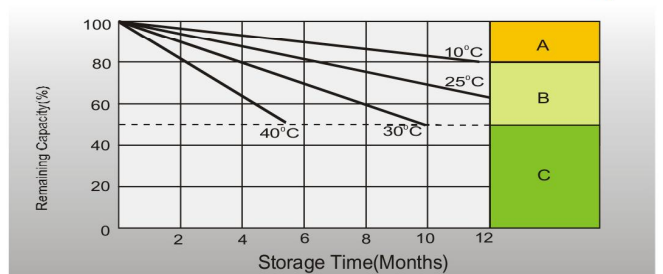
### Effect of Temperature on Long Term Float Life



### Cycle life in Relation to Depth of Discharge



### Self-discharge Characteristics



- A** No supplementary charge required.  
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:  
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.  
3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached.

Specifications subject to change without prior notice.