

**EDC12-110 (12V 130Ah)**
**Specifications**

|                                  |   |                                |
|----------------------------------|---|--------------------------------|
| Nominal Voltage                  | 12V   |                                |
| Nominal Capacity(20 Hr)          | 130Ah   |                                |
| Dimensions                       | Length  | 331±1mm( 13.03 inches)         |
|                                  | Width   | 176±1mm( 6.93 inches)          |
|                                  | Container Height  | 215±1mm( 8.46 inches)          |
|                                  | Total Height (With terminal)  | 220±1mm( 8.66 inches)          |
| Approx Weight                    | Approx. 32.5kgs (71.65 lbs)   |                                |
| Design life                      | 12 years  |                                |
| Terminal                         | M8  |                                |
| Container Material               | ABS   |                                |
| Rated Capacity                   | 130.0Ah/6.50A   | (20hr, 1.75V/Cell, 25 °C/77°F) |
|                                  | 115.7Ah/11.57A  | (10hr, 1.80V/Cell, 25 °C/77°F) |
|                                  | 102.9Ah/20.59A  | (5hr, 1.75V/Cell, 25 °C/77°F)  |
|                                  | 73.4Ah/73.40A   | (1hr, 1.60V/Cell, 25 °C/77°F)  |
| Max. Discharge Current           | 1100A(5s)   |                                |
| Internal Resistance              | Appro≤5.5mΩ   |                                |
| 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 19.8 A. Voltage 14.4V-15.0V at 25 °C(77°F ) Temp. Coefficient-20mV/C   |                                |
| Standby Use                      | No limit on Intital Charging Current Voltage 13.5V-13.8V at 25 °C(77°F ) Temp. Coefficient-20mV/C   |                                |
| Capacity affected by Temperature | 40 °C( 104°F )  | 103%                           |
|                                  | 25 °C( 77°F )   | 100%                           |
|                                  | 0 °C( 32°F )  | 86%                            |
| Self Discharge                   | 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 )**

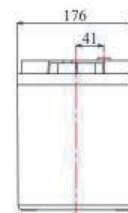
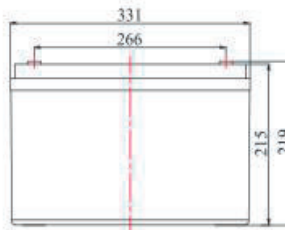
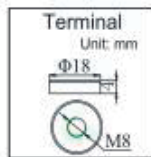
| F.V/Time     | 15min  | 30min  | 45min | 1h    | 2h    | 3h    | 5h    | 8h    | 10h   | 20h  | 100h |
|--------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|------|------|
| <b>1.60V</b> | 169.40 | 108.59 | 79.27 | 73.40 | 45.90 | 32.13 | 21.85 | 13.78 | 12.52 | 6.76 | 1.51 |
| <b>1.67V</b> | 164.09 | 105.19 | 76.79 | 71.10 | 45.00 | 31.50 | 21.42 | 13.50 | 12.28 | 6.53 | 1.49 |
| <b>1.70V</b> | 160.88 | 103.13 | 75.28 | 69.71 | 44.12 | 30.88 | 21.00 | 13.24 | 12.03 | 6.50 | 1.45 |
| <b>1.75V</b> | 157.74 | 101.11 | 73.81 | 68.34 | 43.26 | 30.28 | 20.59 | 12.98 | 11.80 | 6.37 | 1.43 |
| <b>1.80V</b> | 154.60 | 99.10  | 72.34 | 66.98 | 42.39 | 29.68 | 20.18 | 12.73 | 11.57 | 6.25 | 1.40 |

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

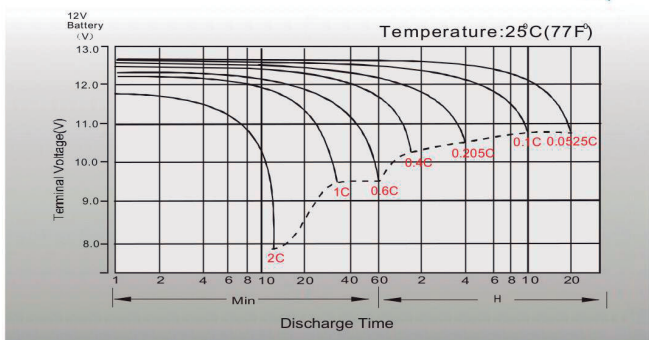
| F.V/Time     | 15min | 30min | 45min | 1h    | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  | 100h |
|--------------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| <b>1.60V</b> | 272.5 | 174.0 | 127.9 | 117.4 | 74.6 | 52.4 | 35.6 | 23.4 | 21.0 | 11.4 | 2.54 |
| <b>1.67V</b> | 267.5 | 170.8 | 125.5 | 115.3 | 73.3 | 51.5 | 35.0 | 23.1 | 20.6 | 11.1 | 2.49 |
| <b>1.70V</b> | 262.6 | 167.6 | 123.2 | 113.1 | 71.9 | 50.5 | 34.3 | 22.7 | 20.2 | 11.1 | 2.44 |
| <b>1.75V</b> | 257.6 | 164.5 | 120.9 | 111.0 | 70.5 | 49.5 | 33.7 | 22.2 | 19.8 | 10.9 | 2.40 |
| <b>1.80V</b> | 247.7 | 158.2 | 116.3 | 106.7 | 67.9 | 47.6 | 32.5 | 21.3 | 19.0 | 10.6 | 2.35 |

**EDC12-110 (12V 130Ah)**

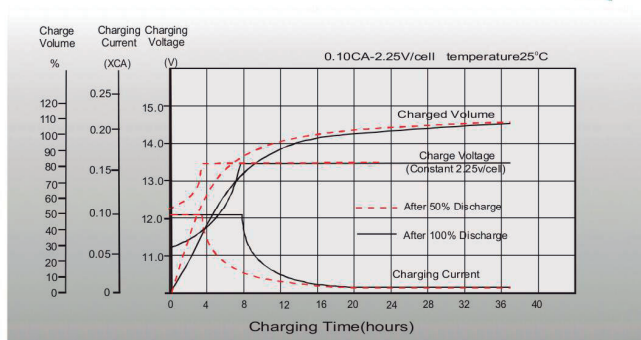
**Dimensions**



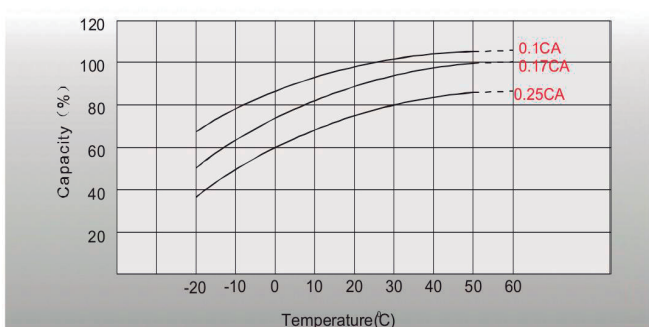
**Discharge Characteristics**



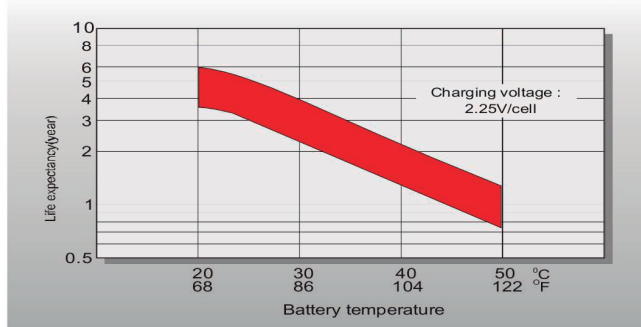
**Float Charging Characteristics**



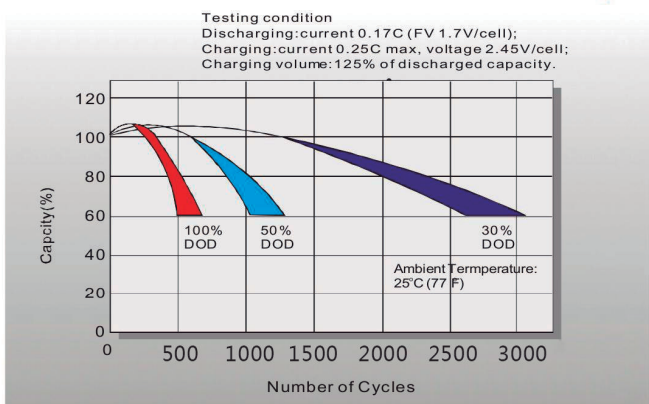
**Temperature Effects in Relation to Battery Capacity**



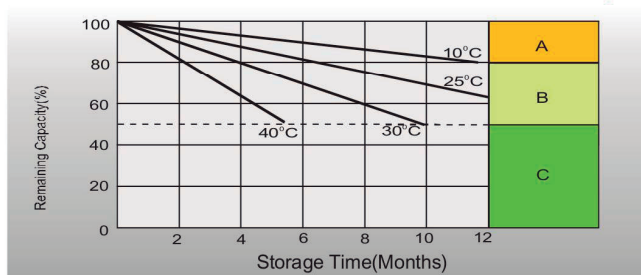
**Effect of Temperature on Long Term Float Life**



**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.