

EDC12-150 (12V 160Ah)
Specifications

| | | |
|----------------------------------|---|--------------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity(20 Hr) | 160Ah | |
| Dimension | Length | 484±1mm(19.06 inches) |
| | Width | 171±1mm(6.73 inches) |
| | Container Height | 241±1mm(9.49 inches) |
| | Total Height (With terminal) | 241±1mm(9.49 inches) |
| | Approx Weight | Approx. 45.5kgs (100.31 lbs) |
| Design life | 12 years | |
| Terminal | M8 | |
| Container Material | ABS | |
| Rated Capacity | 160.0Ah/8.00A | (20hr, 1.75V/Cell, 25 °C/77°F) |
| | 146.5Ah/14.65A | (10hr, 1.80V/Cell, 25 °C/77°F) |
| | 125.0Ah/25.00A | (5hr, 1.75V/Cell, 25 °C/77°F) |
| | 83.4Ah/83.4A | (1hr, 1.60V/Cell, 25 °C/77°F) |
| Max. Discharge Current | 1600A(5s) | |
| Internal Resistance | Appro≤4.0mΩ | |
| 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 27.0A. 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)

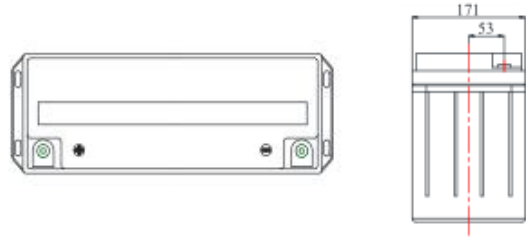
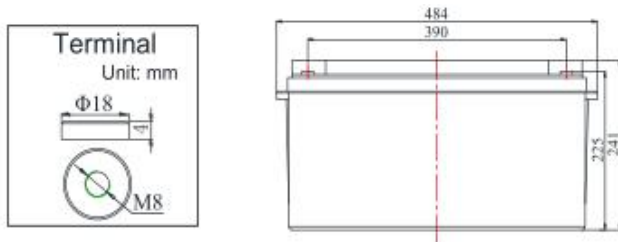
| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h | 100h |
|--------------|-------|-------|-------|------|------|------|------|------|-------|------|------|
| 1.60V | 193.1 | 123.3 | 90.6 | 83.4 | 53.0 | 37.2 | 25.2 | 16.7 | 14.85 | 7.95 | 1.80 |
| 1.67V | 189.6 | 121.1 | 89.0 | 81.8 | 51.9 | 36.5 | 24.8 | 16.4 | 14.55 | 7.80 | 1.77 |
| 1.70V | 186.0 | 118.8 | 87.3 | 80.3 | 51.0 | 35.9 | 24.3 | 16.1 | 14.25 | 7.65 | 1.73 |
| 1.75V | 182.6 | 116.6 | 85.7 | 78.8 | 50.0 | 35.1 | 23.9 | 15.8 | 14.10 | 7.50 | 1.70 |
| 1.80V | 175.5 | 112.1 | 82.4 | 75.8 | 48.0 | 33.8 | 23.0 | 15.2 | 13.65 | 7.43 | 1.67 |

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

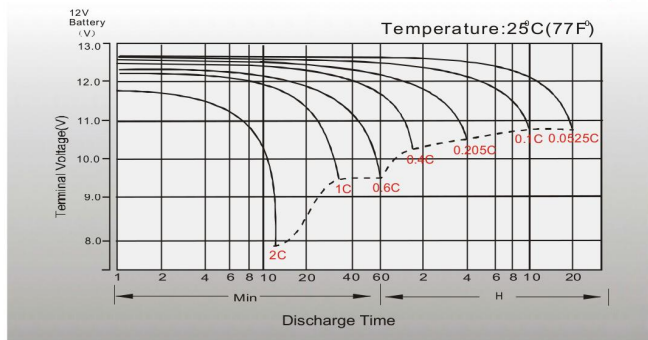
| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h | 100h |
|--------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V | 371.6 | 237.3 | 174.5 | 160.1 | 101.7 | 71.4 | 48.6 | 32.0 | 28.7 | 15.5 | 3.47 |
| 1.67V | 364.8 | 233.0 | 171.2 | 157.2 | 99.9 | 70.2 | 47.7 | 31.5 | 28.1 | 15.2 | 3.39 |
| 1.70V | 358.1 | 228.6 | 168.0 | 154.2 | 98.1 | 68.9 | 46.8 | 30.9 | 27.6 | 15.1 | 3.33 |
| 1.75V | 351.3 | 224.3 | 164.9 | 151.4 | 96.2 | 67.5 | 45.9 | 30.3 | 27.0 | 14.9 | 3.27 |
| 1.80V | 337.8 | 215.7 | 158.6 | 145.5 | 92.6 | 65.0 | 44.3 | 29.1 | 26.0 | 14.4 | 3.21 |

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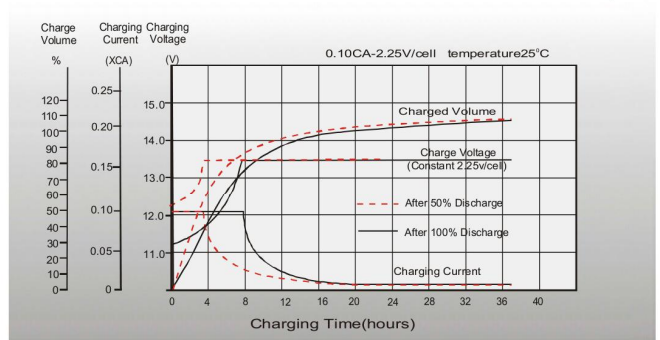
Dimensions



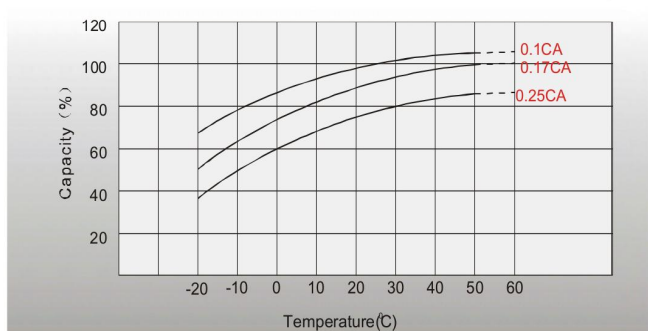
Discharge Characteristics



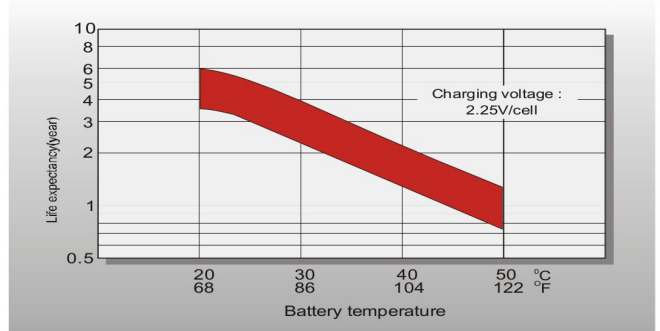
Float Charging Characteristics



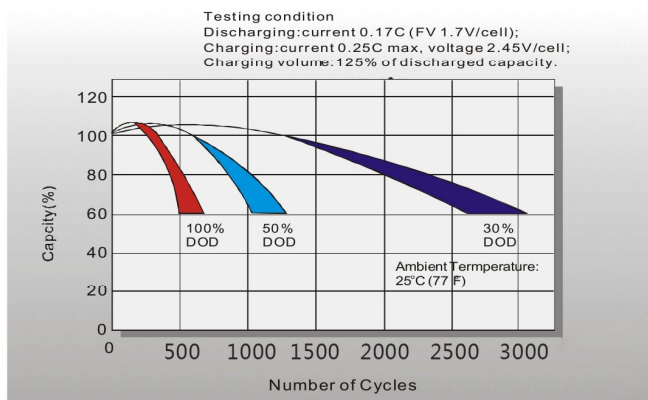
Temperature Effects in Relation to Battery Capacity



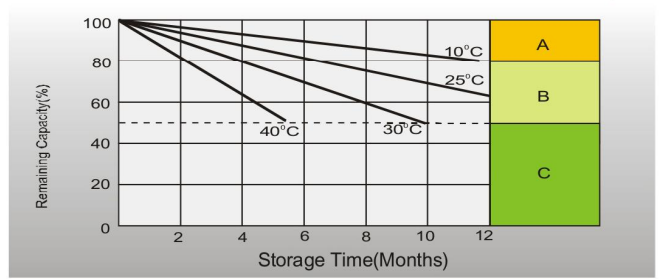
Effect of Temperature on Long Term Float Life



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.