

EDC12-26 (12V 26Ah)

Specifications

| | | |
|----------------------------------|---|--------------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity(20 Hr) | 26Ah | |
| Dimension | Length | 165±1mm(6.50 inches) |
| | Width | 126±1mm(4.96 inches) |
| | Container Height | 174±1mm(6.85 inches) |
| | Total Height (With terminal) | 174±1mm(6.85 inches) |
| Approx Weight | Approx 8.7 kgs (19.18 lbs) | |
| Design life | 12 years | |
| Terminal | M6 | |
| Container Material | ABS | |
| Rated Capacity | 26.0Ah/1.30A | (20hr, 1.75V/Cell, 25 °C/77°F) |
| | 23.7Ah/2.37A | (10hr, 1.80V/Cell, 25 °C/77°F) |
| | 20.0Ah/4.00A | (5hr, 1.75V/Cell, 25 °C/77°F) |
| | 14.5Ah/14.5A | (1hr, 1.60V/Cell, 25 °C/77°F) |
| Max. Discharge Current | 260A(5s) | |
| Internal Resistance | Appro≤13.0mΩ | |
| 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 5.80A. 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)

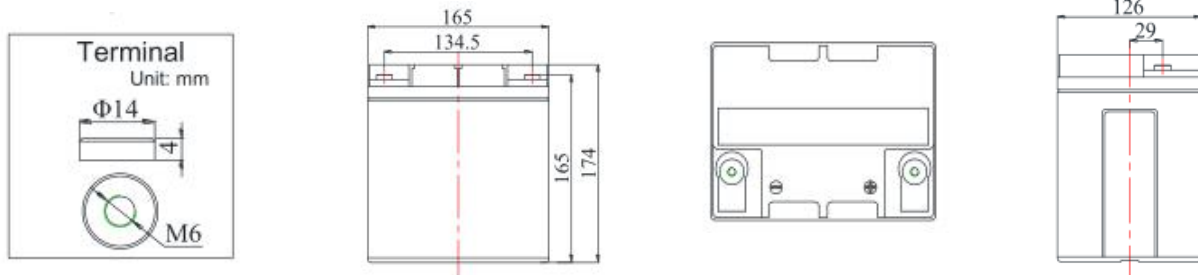
| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h | 100h |
|----------|-------|-------|-------|------|-----|-----|-----|-----|------|------|------|
| 1.60V | 33.5 | 21.4 | 15.7 | 14.5 | 9.2 | 6.4 | 4.4 | 2.9 | 2.57 | 1.38 | 0.31 |
| 1.67V | 32.9 | 21.0 | 15.4 | 14.2 | 9.0 | 6.3 | 4.3 | 2.8 | 2.52 | 1.35 | 0.31 |
| 1.70V | 32.2 | 20.6 | 15.1 | 13.9 | 8.8 | 6.2 | 4.2 | 2.8 | 2.47 | 1.33 | 0.30 |
| 1.75V | 31.6 | 20.2 | 14.8 | 13.7 | 8.7 | 6.1 | 4.1 | 2.7 | 2.44 | 1.30 | 0.29 |
| 1.80V | 30.4 | 19.4 | 14.3 | 13.1 | 8.3 | 5.9 | 4.0 | 2.6 | 2.37 | 1.29 | 0.29 |

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

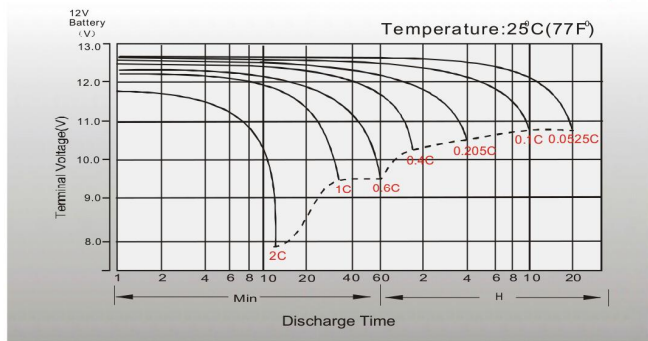
| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h | 100h |
|----------|-------|-------|-------|------|------|------|-----|-----|-----|-----|------|
| 1.60V | 64.4 | 41.1 | 30.2 | 27.7 | 17.6 | 12.4 | 8.4 | 5.5 | 5.0 | 2.7 | 0.60 |
| 1.67V | 63.2 | 40.4 | 29.7 | 27.2 | 17.3 | 12.2 | 8.3 | 5.5 | 4.9 | 2.6 | 0.59 |
| 1.70V | 62.1 | 39.6 | 29.1 | 26.7 | 17.0 | 11.9 | 8.1 | 5.4 | 4.8 | 2.6 | 0.58 |
| 1.75V | 60.9 | 38.9 | 28.6 | 26.2 | 16.7 | 11.7 | 8.0 | 5.3 | 4.7 | 2.6 | 0.57 |
| 1.80V | 58.6 | 37.4 | 27.5 | 25.2 | 16.0 | 11.3 | 7.7 | 5.0 | 4.5 | 2.5 | 0.56 |

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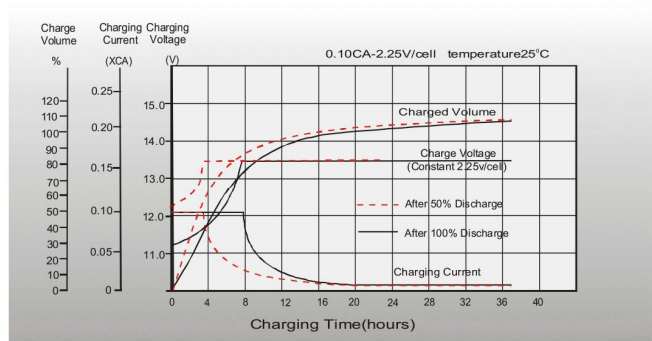
Dimensions



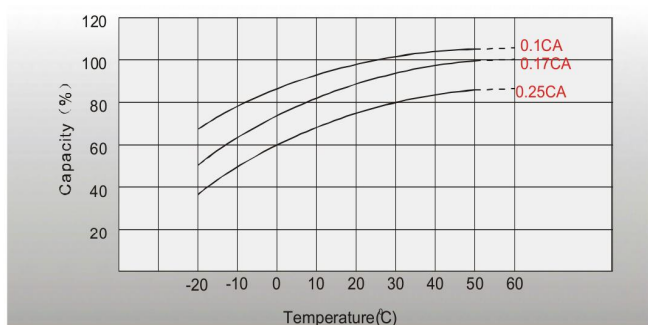
Discharge Characteristics



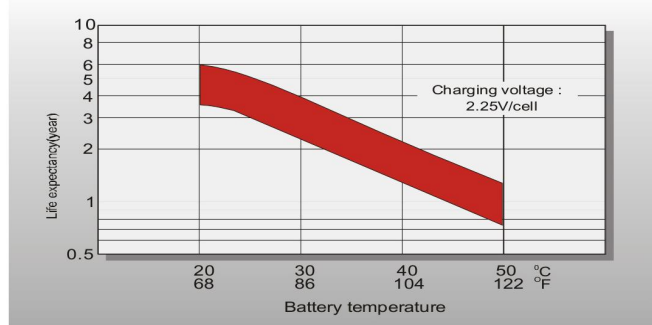
Float Charging Characteristics



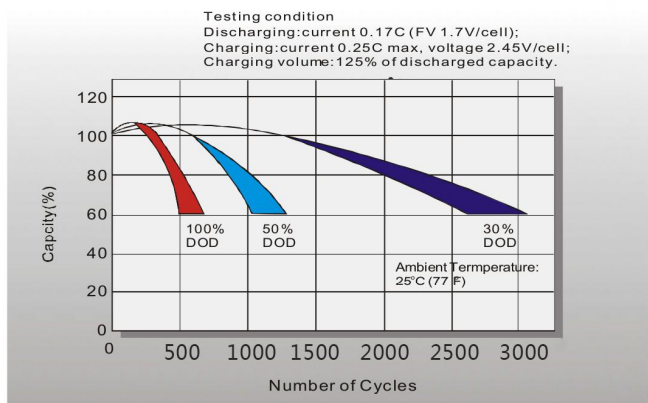
Temperature Effects in Relation to Battery Capacity



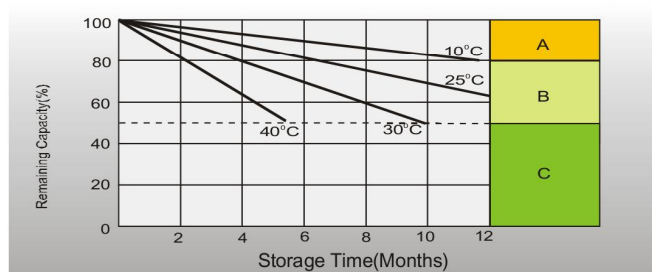
Effect of Temperature on Long Term Float Life



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.