

EDC6-225 (6V 225Ah)

Specifications

| | | |
|----------------------------------|---|--------------------------------|
| Nominal Voltage | 6V | |
| Nominal Capacity(20 Hr) | 225Ah | |
| Dimension | Length | 260±1mm(10.24 inches) |
| | Width | 180±1mm(7.09 inches) |
| | Containeriner Height | 246±1mm(9.69 inches) |
| | Total Height (With terminal) | 252±1mm(9.92 inches) |
| | Approx Weight | Approx30kgs(66.14 lbs) |
| Design life | 12 years | |
| Terminal | M8 | |
| Container Material | ABS | |
| Rated Capacity | 225.0Ah/11.25A | (20hr, 1.75V/Cell, 25 °C/77°F) |
| | 204.8Ah/20.48A | (10hr, 1.80V/Cell, 25 °C/77°F) |
| | 179.0Ah/35.80A | (5hr, 1.75V/Cell, 25 °C/77°F) |
| | 125.1Ah/125.1A | (1hr, 1.60V/Cell, 25 °C/77°F) |
| Max. Discharge Current | 2000A(5s) | |
| Internal Resistance | Appro≤2.7mΩ | |
| Operating Temp. Range | Discharge: -20 °C~50 °C | |
| | Charge: -20 °C~50 °C | |
| | Storage: -20 °C~50 °C | |
| Nominal Operating Temp. Range | 25±3 °C(77±5°F) | |
| Cycle Use | Initial Charging Current Less than 40.5 A. Voltage 7.2V-7.45V at 25 °C(77°F) Temp. Coefficient-20mV/C | |
| Standby Use | No limit on Intital Charging Current Voltage 6.8V-6.9V at 25 °C(77°F) Temp. Coefficient-20mV/C | |
| Capacity affected by Temperature | 40 °C(104°F) | 102% |
| | 25 °C(77°F) | 100% |
| | 0 °C(32°F) | 85% |
| 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)

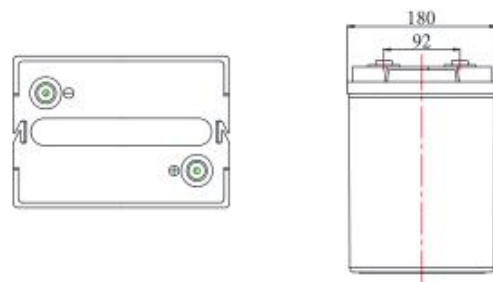
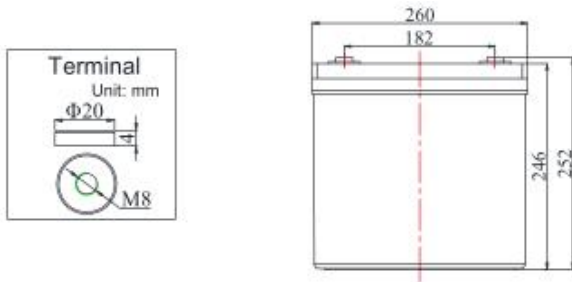
| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h | 100h |
|----------|-------|-------|-------|-------|------|------|------|------|-------|-------|------|
| 1.60V | 289.6 | 185.0 | 135.9 | 125.1 | 79.4 | 55.8 | 37.8 | 25.0 | 22.28 | 11.93 | 2.70 |
| 1.67V | 284.4 | 181.6 | 133.4 | 122.6 | 77.9 | 54.7 | 37.1 | 24.5 | 21.83 | 11.70 | 2.66 |
| 1.70V | 279.0 | 178.2 | 131.0 | 120.4 | 76.5 | 53.8 | 36.5 | 24.1 | 21.38 | 11.48 | 2.59 |
| 1.75V | 273.8 | 174.8 | 128.5 | 118.1 | 74.9 | 52.7 | 35.8 | 23.6 | 21.15 | 11.25 | 2.54 |
| 1.80V | 263.3 | 168.1 | 123.5 | 113.6 | 72.0 | 50.6 | 34.4 | 22.7 | 20.48 | 11.14 | 2.50 |

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

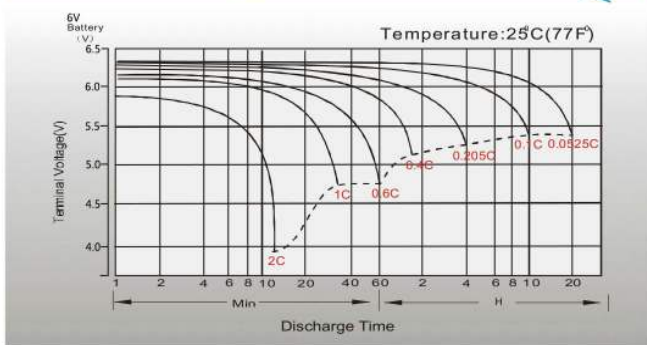
| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h | 100h |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 557.3 | 356.0 | 261.7 | 240.1 | 152.6 | 107.1 | 72.9 | 47.9 | 43.0 | 23.3 | 5.20 |
| 1.67V | 547.2 | 349.4 | 256.7 | 235.8 | 149.9 | 105.3 | 71.6 | 47.3 | 42.1 | 22.8 | 5.09 |
| 1.70V | 537.1 | 342.9 | 252.0 | 231.3 | 147.2 | 103.3 | 70.2 | 46.4 | 41.4 | 22.6 | 5.00 |
| 1.75V | 527.0 | 336.4 | 247.3 | 227.0 | 144.2 | 101.3 | 68.9 | 45.5 | 40.5 | 22.3 | 4.91 |
| 1.80V | 506.7 | 323.6 | 237.8 | 218.3 | 138.8 | 97.4 | 66.4 | 43.7 | 38.9 | 21.6 | 4.82 |

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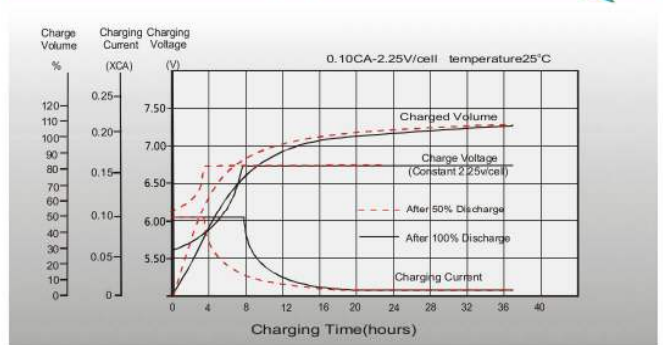
Dimensions



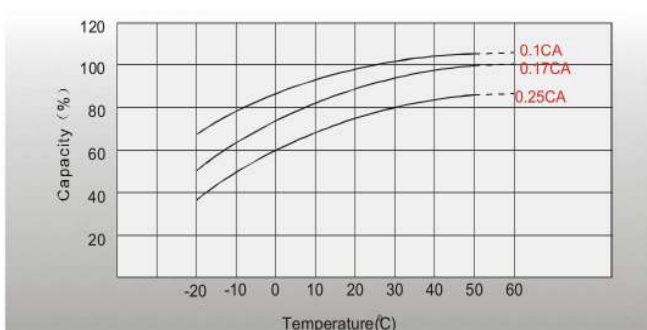
Discharge Characteristics



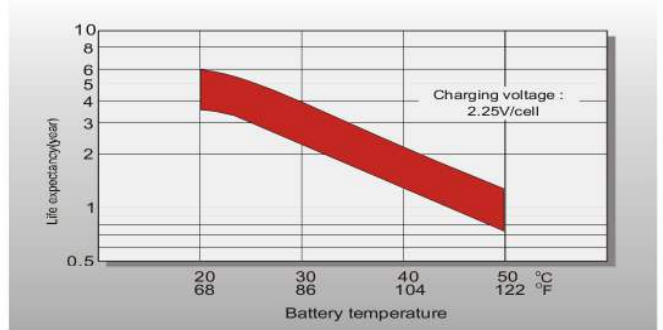
Float Charging Characteristics



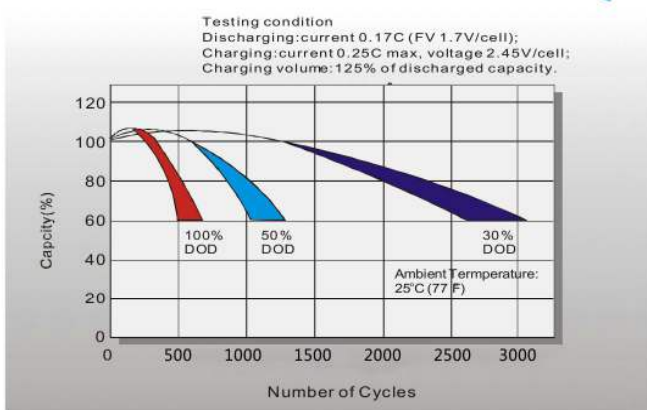
Temperature Effects in Relation to Battery Capacity



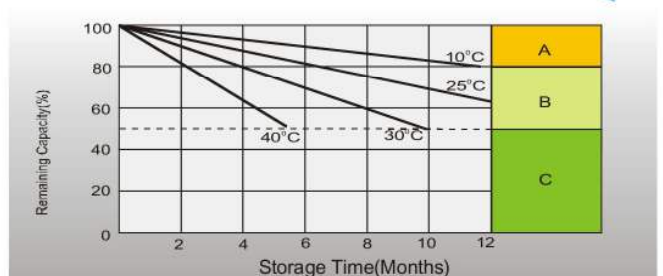
Effect of Temperature on Long Term Float Life



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.