



CDC3.2-12

Awaiting Image

Physical Specification

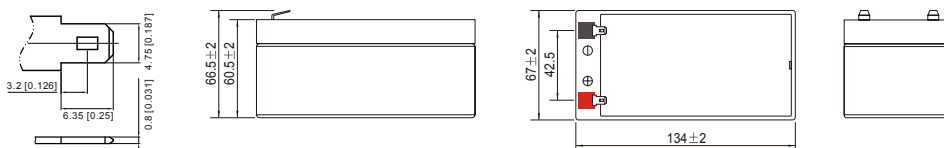
| | |
|-------------------------------|----------------------------------|
| Part Number: | CDC3.2-12 |
| Length: | 134 ± 2 mm (5.28 inches) |
| Width: | 67 ± 2 mm (2.64 inches) |
| Container Height: | 60.5 ± 2 mm (2.38 inches) |
| Total Height (with terminal): | 66.5 ± 2 mm (2.62 inches) |
| Approx Weight: | Approx 1.35kg (2.98lbs) |

Specifications

| | | |
|-------------------------------------|--|---|
| | Normal Voltage | 12V |
| | Normal Capacity (20HR) | 3.2AH |
| Terminal Type | Standard Terminal | T1 |
| | Optional Terminal | T2 |
| Container Material | Standard Option | ABS |
| | Flame Retardant Option (FR) | ABS(UL94:VO) |
| Rated Capacity | 3.44 AH/0.172A | (20hr, 1.80V/cell, 25°C / 77°F) |
| | 3.20 AH/0.32A | (10hr, 1.80V/cell, 25°C / 77°F) |
| | 2.80 AH/0.561A | (5hr, 1.75V/cell, 25°C / 77°F) |
| | 2.54 AH/0.848A | (3hr, 1.75V/cell, 25°C / 77°F) |
| | 2.07 AH/2.07A | (1hr, 1.60V/cell, 25°C / 77°F) |
| Max Discharge Current | 52.5A (5s) | |
| Internal Resistance | Approx 45.0mΩ | |
| Discharge Characteristics | Operating Temp. Range | Discharge: -15 ~ 50°C (5 ~ 122°F) |
| | | Charge: 0 ~ 40°C (5 ~ 104°F) |
| | | Storage: -15 ~ 40°C (5 ~ 104°F) |
| | Nominal Operating Temp. Range | 25 ± 3°C (77 ± 5°F) |
| | Cycle Use | Initial Charging Current less than 1.05A. Voltage 14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C |
| | Standby Use | No limit on Initial 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% | | |
| Design Floating Life at 20°C | 12 Years | |
| Self Discharge | Canbat batteries may be stored for up to 6 months at 25°C(77F) and then a refresh charge is required. For higher temperatures the time interval will be shorter. | |

Dimensions

T1 Terminal



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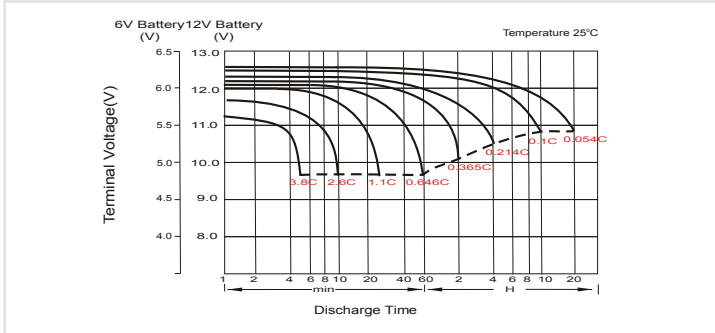
Constant Current Discharge (Amperes) at 25°C (77°F)

| F.V/Time | 10 min | 15 min | 20 min | 30 min | 45 min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|--------|--------|--------|--------|--------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 1.85V/cell | 4.69 | 3.94 | 3.44 | 2.48 | 1.97 | 1.60 | 0.99 | 0.774 | 0.627 | 0.509 | 0.444 | 0.363 | 0.302 | 0.170 |
| 1.80V/cell | 5.99 | 4.76 | 4.07 | 2.93 | 2.29 | 1.79 | 1.08 | 0.833 | 0.669 | 0.547 | 0.476 | 0.385 | 0.320 | 0.172 |
| 1.75V/cell | 6.58 | 5.20 | 4.38 | 3.04 | 2.38 | 1.87 | 1.12 | 0.848 | 0.684 | 0.561 | 0.490 | 0.391 | 0.323 | 0.173 |
| 1.70V/cell | 7.17 | 5.55 | 4.60 | 3.16 | 2.47 | 1.93 | 1.17 | 0.872 | 0.702 | 0.575 | 0.500 | 0.397 | 0.326 | 0.176 |
| 1.65V/cell | 7.74 | 5.91 | 4.89 | 3.33 | 2.53 | 2.00 | 1.20 | 0.909 | 0.726 | 0.591 | 0.511 | 0.403 | 0.333 | 0.179 |
| 1.60V/cell | 8.40 | 6.32 | 5.21 | 3.52 | 2.64 | 2.07 | 1.24 | 0.937 | 0.749 | 0.611 | 0.522 | 0.407 | 0.337 | 0.180 |

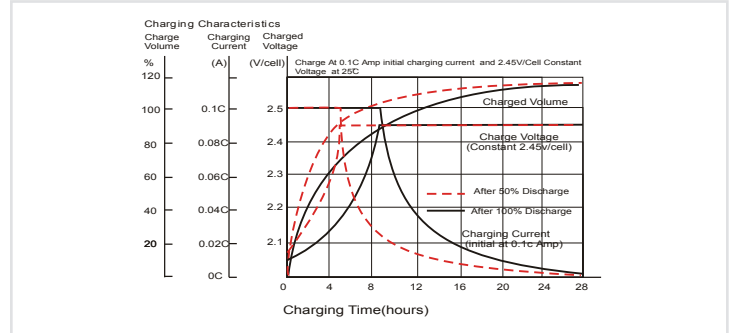
Constant Power Discharge (Watts) at 25°C (77°F)

| F.V/Time | 10 min | 15 min | 20 min | 30 min | 45 min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|--------|--------|--------|--------|--------|------|------|------|------|------|------|-------|-------|-------|
| 1.85V/cell | 8.74 | 7.43 | 6.57 | 4.76 | 3.81 | 3.10 | 1.93 | 1.51 | 1.23 | 1.00 | 0.88 | 0.718 | 0.598 | 0.340 |
| 1.80V/cell | 11.0 | 8.85 | 7.64 | 5.55 | 4.39 | 3.45 | 2.10 | 1.62 | 1.30 | 1.07 | 0.94 | 0.760 | 0.633 | 0.343 |
| 1.75V/cell | 12.0 | 9.6 | 8.15 | 5.74 | 4.54 | 3.60 | 2.17 | 1.64 | 1.33 | 1.10 | 0.96 | 0.772 | 0.639 | 0.345 |
| 1.70V/cell | 12.9 | 10.1 | 8.52 | 5.95 | 4.71 | 3.70 | 2.25 | 1.69 | 1.36 | 1.12 | 0.98 | 0.783 | 0.645 | 0.352 |
| 1.65V/cell | 13.8 | 10.7 | 9.01 | 6.25 | 4.81 | 3.82 | 2.31 | 1.75 | 1.41 | 1.15 | 1.00 | 0.794 | 0.658 | 0.356 |
| 1.60V/cell | 14.7 | 11.3 | 9.5 | 6.53 | 4.96 | 3.92 | 2.37 | 1.80 | 1.44 | 1.18 | 1.02 | 0.801 | 0.664 | 0.357 |

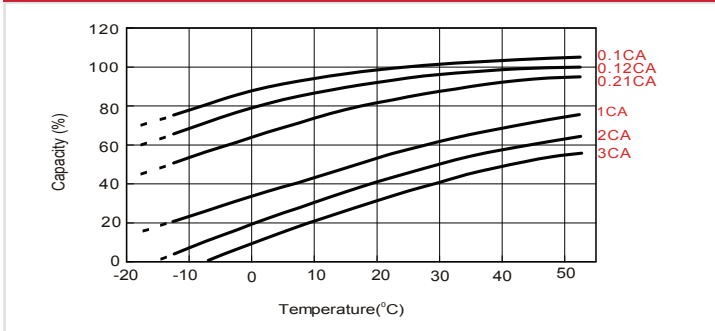
Discharge Characteristics



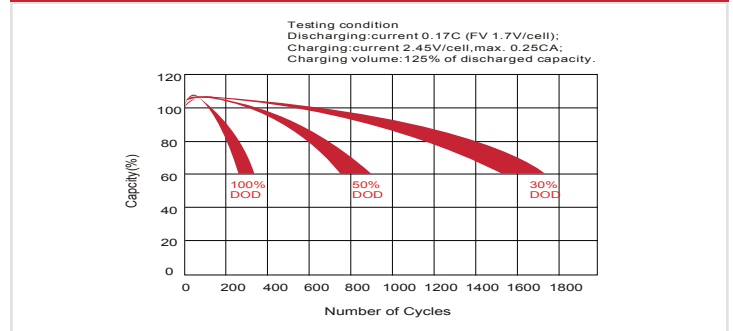
Charging Characteristics (cycle use)



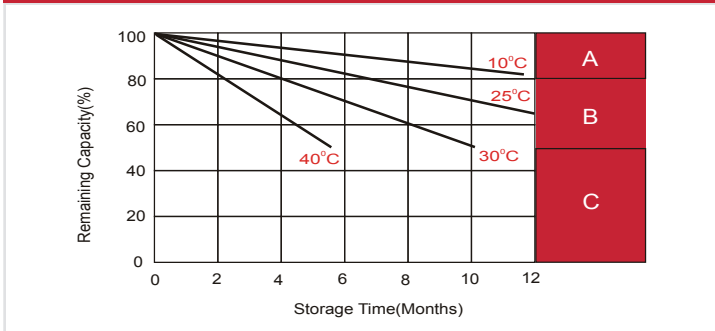
Temperature Effects in Relation to Battery Capacity



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 volatge 2.25V/cell.
2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
3. Charged for 8~10hours 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.

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