



**CBL 800-2**

Awaiting Image

**Physical Specification**

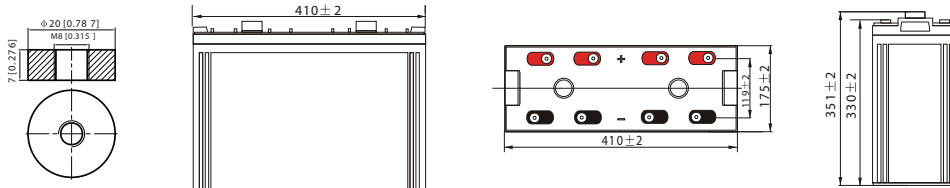
|                               |                                   |
|-------------------------------|-----------------------------------|
| Part Number:                  | <b>CBL800-2</b>                   |
| Length:                       | <b>410 ± 2 mm (16.14 inches)</b>  |
| Width:                        | <b>175 ± 2 mm (6.89 inches)</b>   |
| Container Height:             | <b>330 ± 2 mm (12.99 inches)</b>  |
| Total Height (with terminal): | <b>351 ± 2 mm (13.82 inches)</b>  |
| Approx Weight:                | <b>Approx 50.1 kg (110.3 lbs)</b> |

**Specifications**

|                                     |  |   |
|-------------------------------------|--|---|
|                                     | Normal Voltage   | 2V  |
|                                     | Normal Capacity (20HR)   | 800AH   |
| <b>Terminal Type</b>                | Standard Terminal  | T11   |
|                                     | Optional Terminal  | -   |
| <b>Container Material</b>           | Standard Option  | ABS   |
|                                     | Flame Retardant Option (FR)  | UL94:VO   |
| <b>Rated Capacity</b>               | 840.0 AH/42.0A   | (20hr, 1.80V/cell, 25°C / 77°F)   |
|                                     | 800.0 AH/80.0A   | (10hr, 1.80V/cell, 25°C / 77°F)   |
|                                     | 684.0 AH/136.8A  | (5hr, 1.75V/cell, 25°C / 77°F)  |
|                                     | 600.0 AH/200.0A  | (3hr, 1.75V/cell, 25°C / 77°F)  |
|                                     | 480.0 AH/480.0A  | (1hr, 1.60V/cell, 25°C / 77°F)  |
| <b>Max Discharge Current</b>        | 6400A (5s)   |   |
| <b>Internal Resistance</b>          | Approx 0.5mΩ   |   |
| <b>Discharge Characteristics</b>    | 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 240.0A. Voltage 2.4V ~ 2.5V at 25°C (77°F) Temp. Coefficient -5mV/°C |
|                                     | Standby Use  | No limit on Initial Charging Current Voltage 2.25V ~ 2.3V at 25°C (77°F) Temp. Coefficient -3mV/°C      |
|                                     | Capacity affected by Temperature   | 40°C (104°F) 103%<br>25°C (77°F) 100%<br>0°C (32°F) 86%   |
| <b>Design Floating Life at 20°C</b> | 10 Years   |   |
| <b>Self Discharge</b>               | 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**

**T11 Terminal**



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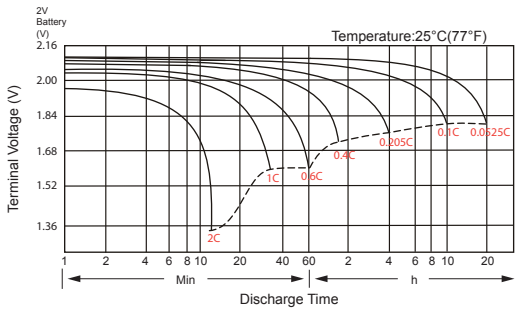
### Constant Current Discharge (Amperes) at 25°C (77°F)

| F.V/Time   | 5 min  | 10 min | 15 min | 20 min | 30 min | 45 min | 1h    | 2h    | 3h    | 4h    | 5h    | 6h    | 8h    | 10h  | 20h  |
|------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1.85V/cell | 933.4  | 822.4  | 722.9  | 639.9  | 534.8  | 434.4  | 354.6 | 237.6 | 181.6 | 146.4 | 125.3 | 110.3 | 89.4  | 76.4 | 40.5 |
| 1.80V/cell | 1136.0 | 962.4  | 823.8  | 717.3  | 587.6  | 467.2  | 377.7 | 250.0 | 196.8 | 151.4 | 130.4 | 114.9 | 93.7  | 80.0 | 42.0 |
| 1.75V/cell | 1327.7 | 1102.8 | 932.0  | 794.8  | 639.2  | 505.6  | 406.4 | 265.2 | 200.0 | 159.8 | 136.8 | 120.4 | 96.1  | 81.6 | 42.5 |
| 1.70V/cell | 1519.5 | 1246.6 | 1030.1 | 874.1  | 694.6  | 540.1  | 430.2 | 280.0 | 208.8 | 166.4 | 142.3 | 124.7 | 99.2  | 83.6 | 43.4 |
| 1.65V/cell | 1631.3 | 1332.8 | 1095.9 | 923.9  | 727.8  | 561.4  | 447.1 | 289.2 | 215.5 | 171.4 | 146.2 | 126.9 | 101.0 | 85.0 | 44.2 |
| 1.60V/cell | 1892.0 | 1509.4 | 1231.9 | 1030.1 | 796.0  | 607.3  | 480.0 | 303.6 | 224.5 | 178.6 | 153.0 | 132.5 | 104.8 | 87.7 | 45.5 |

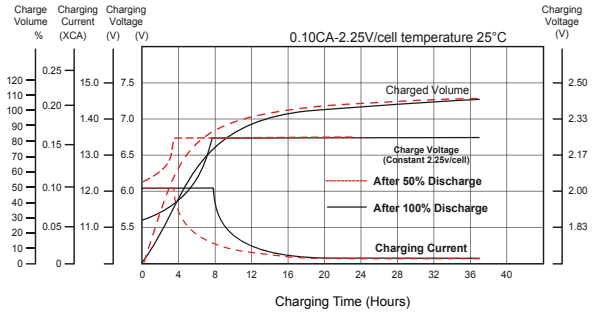
### Constant Power Discharge (Watts) at 25°C (77°F)

| F.V/Time   | 5 min  | 10 min | 15 min | 20 min | 30 min | 45 min | 1h    | 2h    | 3h    | 4h    | 5h    | 6h    | 8h    | 10h   | 20h  |
|------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1.85V/cell | 1715.9 | 1527.3 | 1356.1 | 1212.6 | 1024.7 | 839.3  | 687.5 | 463.8 | 355.8 | 287.7 | 247.0 | 217.9 | 177.4 | 152.0 | 80.7 |
| 1.80V/cell | 2066.3 | 1766.5 | 1524.7 | 1339.3 | 1108.7 | 895.6  | 728.4 | 484.8 | 383.4 | 295.9 | 255.8 | 226.2 | 185.4 | 158.9 | 83.5 |
| 1.75V/cell | 2363.9 | 1991.9 | 1703.9 | 1470.1 | 1196.1 | 960.2  | 780.3 | 512.3 | 388.1 | 311.3 | 267.4 | 236.2 | 189.7 | 161.9 | 84.5 |
| 1.70V/cell | 2630.6 | 2200.9 | 1857.2 | 1604.6 | 1292.6 | 1021.9 | 823.4 | 539.8 | 404.4 | 323.5 | 277.7 | 244.2 | 195.6 | 165.7 | 86.2 |
| 1.65V/cell | 2784.5 | 2331.6 | 1960.9 | 1683.4 | 1343.3 | 1052.7 | 849.4 | 554.3 | 415.6 | 332.0 | 284.4 | 247.9 | 198.7 | 168.1 | 87.5 |
| 1.60V/cell | 3155.2 | 2580.7 | 2167.9 | 1856.5 | 1459.1 | 1132.6 | 907.2 | 579.1 | 431.1 | 344.9 | 296.6 | 258.0 | 205.7 | 173.2 | 90.1 |

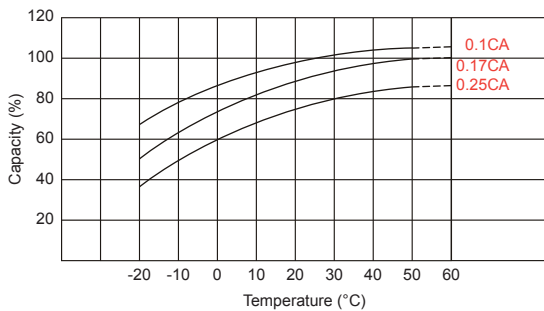
### Discharge Characteristics



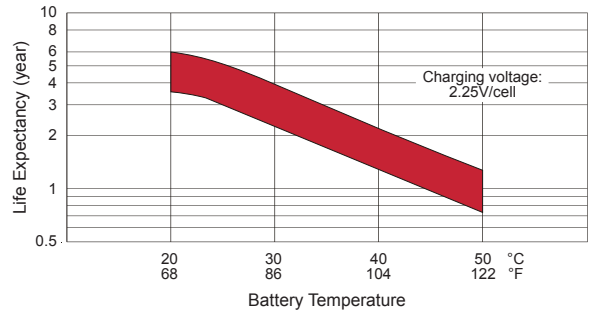
### Float Charging Characteristics



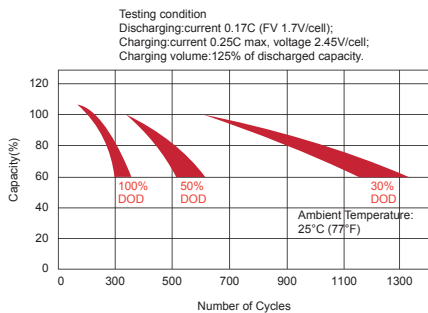
### Temperature Effects in Relation to Battery Capacity



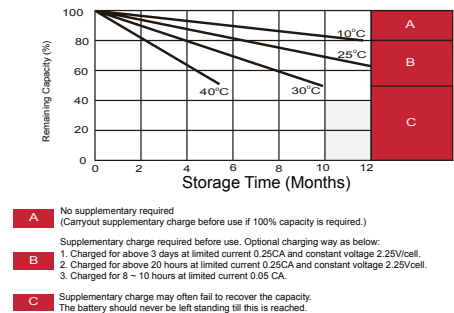
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### Self Discharge Characteristics



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