

# BCG150-12 | 12V 150Ah

## Hybrid Gel Battery

# BLACK BATT.

### Specification

|                                    |                                                                                                                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                      | 12V                                                                                                                                                                                                |
| Nominal Capacity (10 hour rate)    | 150Ah                                                                                                                                                                                              |
| Dimensions                         | Length 483 ± 3 mm (19.0 inches)                                                                                                                                                                    |
|                                    | Width 170 ± 3 mm (6.69 inches)                                                                                                                                                                     |
|                                    | Container Height 238 ± 3 mm (9.38 inches)                                                                                                                                                          |
|                                    | Total Height 238 ± 3 mm (9.38 inches)                                                                                                                                                              |
| Approximate Weight                 | 43.6 kg ± 3% (96.1 lbs)                                                                                                                                                                            |
| Short-circuit current              | 3000A                                                                                                                                                                                              |
| Internal Resistance (25°C)         | Approx. 3.5mΩ                                                                                                                                                                                      |
| Container Material                 | ABS                                                                                                                                                                                                |
| Operating Temp. Range              | Discharge -15~50°C (5~122°F)                                                                                                                                                                       |
|                                    | Charge -20~40°C (-4~104°F)                                                                                                                                                                         |
|                                    | Storage -15~40°C (5~104°F)                                                                                                                                                                         |
| Nominal Operating Temp. Range      | 25±3°C (77±5°F)                                                                                                                                                                                    |
| Cyclic charging voltage(25°C)      | 14.50 to 14.90V                                                                                                                                                                                    |
|                                    | Temperature compensation: -30mV/°C                                                                                                                                                                 |
| Standby usage(25°C)                | 13.60 to 13.80V                                                                                                                                                                                    |
|                                    | Temperature compensation: -18mV/°C                                                                                                                                                                 |
| Temperature Affect on the Capacity | 40°C (104°F) 103%                                                                                                                                                                                  |
|                                    | 25°C (77°F) 100%                                                                                                                                                                                   |
|                                    | 0°C (32°F) 86%                                                                                                                                                                                     |
| Self Discharge                     | ≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. |
| Designed floating life (20°C)      | 10 years                                                                                                                                                                                           |



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

| F.V/Time   | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 161.7 | 135.2 | 106.9 | 81.2  | 67.2 | 42.7 | 33.2 | 27.3 | 23.2 | 20.2 | 16.4 | 13.9 | 7.50 |
| 1.80V/cell | 192.5 | 157.5 | 123.0 | 92.1  | 74.7 | 46.4 | 35.6 | 29.0 | 24.9 | 21.7 | 17.5 | 15.0 | 7.73 |
| 1.75V/cell | 214.6 | 173.0 | 131.1 | 97.4  | 79.0 | 48.6 | 36.9 | 30.0 | 25.5 | 22.3 | 17.8 | 15.2 | 7.80 |
| 1.70V/cell | 231.8 | 183.9 | 138.3 | 102.3 | 82.5 | 51.0 | 38.2 | 30.9 | 26.2 | 22.7 | 18.1 | 15.2 | 7.95 |
| 1.67V/cell | 244.1 | 193.5 | 144.8 | 105.4 | 85.4 | 52.4 | 39.6 | 31.8 | 26.8 | 23.2 | 18.3 | 15.4 | 8.03 |
| 1.60V/cell | 263.2 | 207.8 | 153.9 | 111.4 | 89.6 | 54.3 | 41.0 | 32.6 | 27.3 | 23.7 | 18.6 | 15.6 | 8.10 |

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

| F.V/Time   | 15min | 20min | 30min | 45min | 1h    | 2h    | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/cell | 304.0 | 256.9 | 204.8 | 156.7 | 130.1 | 83.2  | 64.8 | 53.5 | 45.6 | 39.8 | 32.6 | 27.7 | 14.9 |
| 1.80V/cell | 357.4 | 295.1 | 232.8 | 176.5 | 144.0 | 89.9  | 69.3 | 56.7 | 48.8 | 42.6 | 34.6 | 29.7 | 15.3 |
| 1.75V/cell | 393.2 | 320.6 | 246.0 | 185.1 | 151.6 | 93.9  | 71.6 | 58.4 | 49.8 | 43.6 | 35.1 | 30.0 | 15.5 |
| 1.70V/cell | 418.2 | 337.8 | 257.6 | 193.3 | 157.6 | 98.2  | 73.9 | 60.0 | 51.0 | 44.5 | 35.6 | 30.1 | 15.8 |
| 1.67V/cell | 436.1 | 352.1 | 267.3 | 197.5 | 162.1 | 100.3 | 76.3 | 61.6 | 52.0 | 45.3 | 36.0 | 30.4 | 15.9 |
| 1.60V/cell | 462.4 | 373.9 | 281.7 | 207.5 | 169.0 | 103.5 | 78.6 | 62.8 | 52.9 | 46.1 | 36.4 | 30.8 | 16.0 |

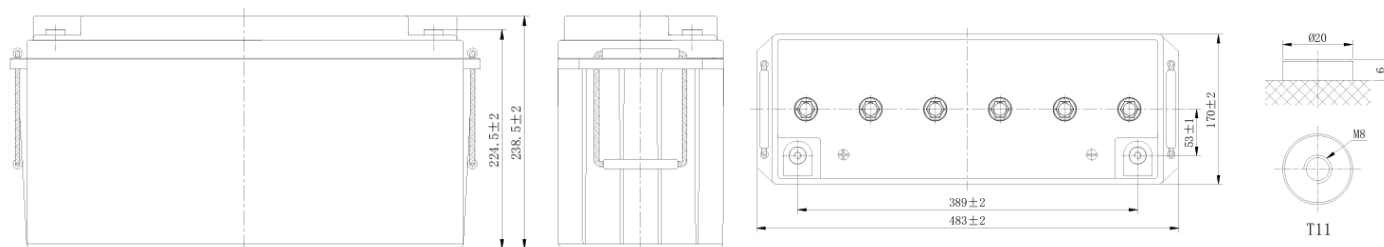
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

# BCG150-12 | 12V 150Ah

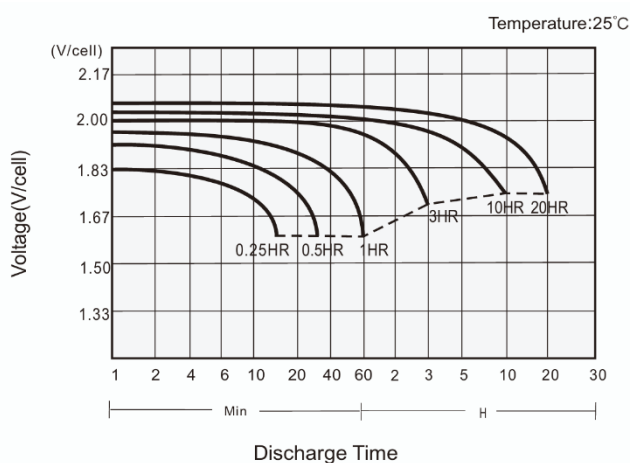
Hybrid Gel Battery

# BLACK BATT.

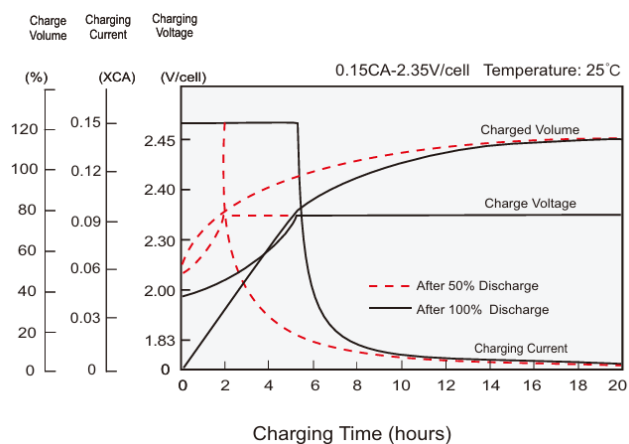
## Dimensions | Terminal Type (unit:mm)



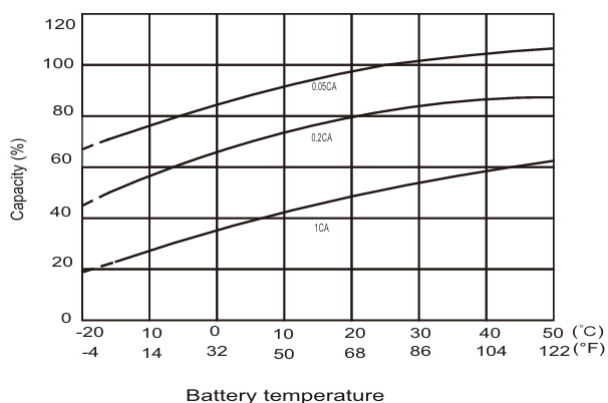
## Discharge Characteristics



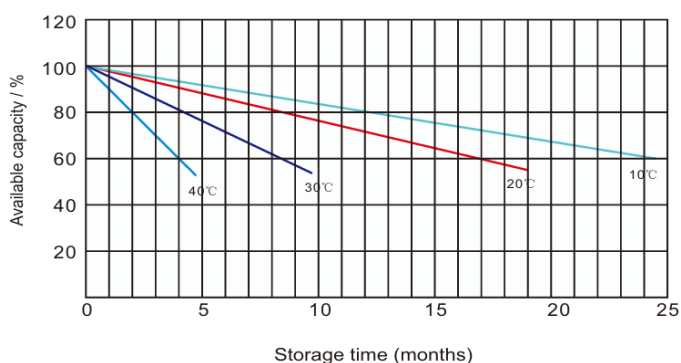
## Charging Characteristics



## Effects of Temperature on Capacity



## Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.