

# BC7.2-12 | 12V 7.2Ah

## Valve Regulated Lead Acid Battery

# BLACK BATT.

### Specification

|                                    |                                                                                                                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                      | 12V                                                                                                                                                                                                |
| Nominal Capacity (20 hour rate)    | 7.2Ah                                                                                                                                                                                              |
| Dimensions                         | Length 151 ± 3 mm (5.94 inches)                                                                                                                                                                    |
|                                    | Width 65 ± 3 mm (2.56 inches)                                                                                                                                                                      |
|                                    | Container Height 93 ± 3 mm (3.68 inches)                                                                                                                                                           |
|                                    | Total Height 99 ± 3 mm (3.92 inches)                                                                                                                                                               |
| Approximate Weight                 | 2.22 kg ± 3% (4.90 lbs)                                                                                                                                                                            |
| Short-circuit current              | 210A                                                                                                                                                                                               |
| Internal Resistance (25°C)         | Approx.23mΩ                                                                                                                                                                                        |
| 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)      | 5 years                                                                                                                                                                                            |



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

| F.V/Time   | 5min | 10min | 15min | 20min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h    | 10h   | 20h   |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|
| 1.85V/cell | 24.4 | 16.5  | 12.3  | 10.1  | 7.40  | 5.41  | 4.43 | 3.25 | 2.57 | 1.85 | 1.48 | 1.26 | 1.08 | 0.848 | 0.693 | 0.367 |
| 1.80V/cell | 26.3 | 17.5  | 12.9  | 10.5  | 7.63  | 5.56  | 4.54 | 3.31 | 2.62 | 1.88 | 1.50 | 1.27 | 1.09 | 0.860 | 0.702 | 0.371 |
| 1.75V/cell | 27.7 | 18.2  | 13.3  | 10.7  | 7.83  | 5.68  | 4.63 | 3.37 | 2.66 | 1.91 | 1.52 | 1.29 | 1.11 | 0.869 | 0.709 | 0.375 |
| 1.70V/cell | 29.0 | 18.9  | 13.8  | 11.1  | 8.03  | 5.80  | 4.72 | 3.43 | 2.70 | 1.94 | 1.54 | 1.31 | 1.12 | 0.878 | 0.717 | 0.378 |
| 1.67V/cell | 30.0 | 19.5  | 14.1  | 11.3  | 8.17  | 5.90  | 4.79 | 3.48 | 2.73 | 1.96 | 1.55 | 1.32 | 1.13 | 0.885 | 0.722 | 0.381 |
| 1.60V/cell | 31.8 | 20.3  | 14.6  | 11.6  | 8.39  | 6.04  | 4.90 | 3.55 | 2.79 | 2.00 | 1.58 | 1.34 | 1.14 | 0.898 | 0.731 | 0.385 |

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

| F.V/Time   | 5min | 10min | 15min | 20min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h   |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|-------|
| 1.85V/cell | 46.2 | 31.4  | 23.5  | 19.4  | 14.3  | 10.5  | 8.62 | 6.34 | 5.03 | 3.64 | 2.91 | 2.48 | 2.13 | 1.68 | 1.38 | 0.733 |
| 1.80V/cell | 49.2 | 33.1  | 24.5  | 20.0  | 14.7  | 10.7  | 8.80 | 6.45 | 5.11 | 3.69 | 2.95 | 2.51 | 2.16 | 1.70 | 1.39 | 0.742 |
| 1.75V/cell | 51.3 | 34.2  | 25.2  | 20.5  | 15.0  | 10.9  | 8.95 | 6.55 | 5.19 | 3.74 | 2.98 | 2.54 | 2.18 | 1.72 | 1.41 | 0.750 |
| 1.70V/cell | 53.2 | 35.3  | 25.9  | 21.0  | 15.3  | 11.1  | 9.08 | 6.64 | 5.25 | 3.79 | 3.02 | 2.57 | 2.20 | 1.74 | 1.42 | 0.756 |
| 1.67V/cell | 54.5 | 36.1  | 26.4  | 21.3  | 15.5  | 11.3  | 9.20 | 6.71 | 5.30 | 3.82 | 3.04 | 2.59 | 2.22 | 1.75 | 1.43 | 0.762 |
| 1.60V/cell | 56.7 | 37.2  | 27.1  | 21.9  | 15.9  | 11.5  | 9.37 | 6.83 | 5.38 | 3.88 | 3.09 | 2.63 | 2.25 | 1.77 | 1.45 | 0.770 |

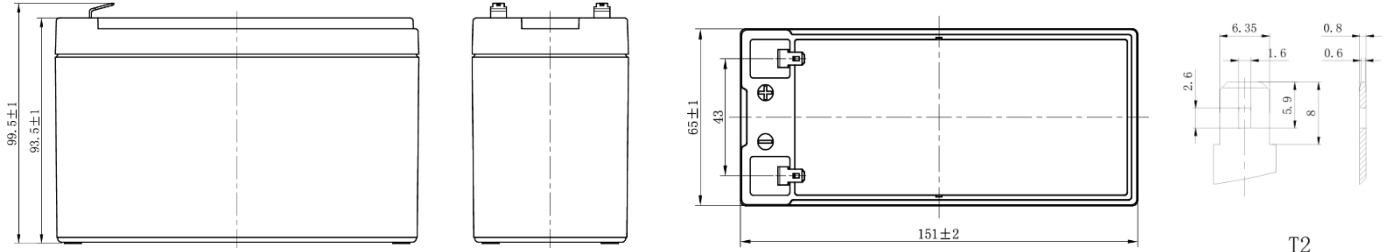
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

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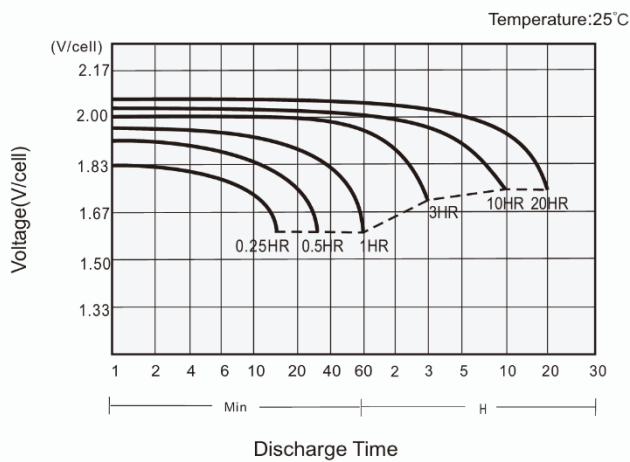
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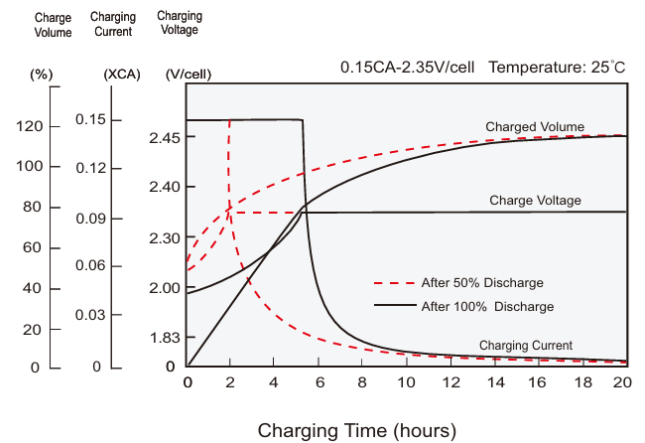
## Dimensions | Terminal Type (unit:mm)



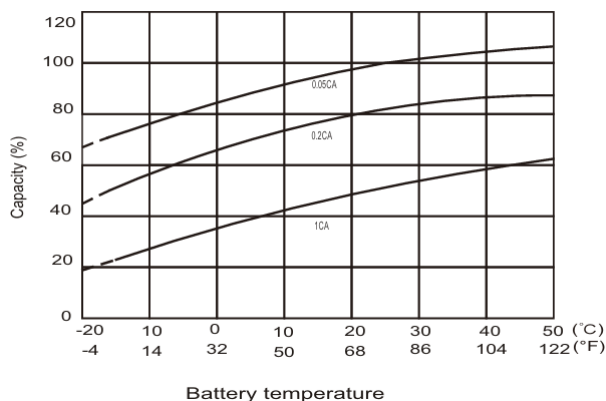
## Discharge Characteristics



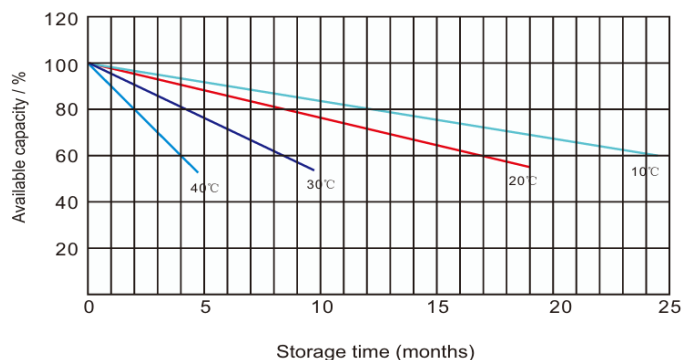
## Charging Characteristics



## Effects of Temperature on Capacity



## Self Discharge Characteristics



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