

# DEEP CYCLE GEL BATTERY

## BPG12-150(12V150Ah)

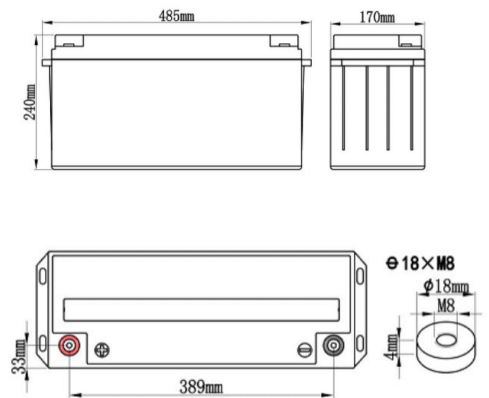
**BVBA**  
BRAVA BATTERY

### Specifications

|                                     |                                                                                                                                                                           |                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Rated Voltage</b>                | 12V                                                                                                                                                                       |                         |
| <b>Nominal Capacity</b>             | 150Ah                                                                                                                                                                     | (C10 , 1.8V/cell)       |
| <b>Dimension</b>                    | Length                                                                                                                                                                    | 485±2mm ( 194inches)    |
|                                     | Width                                                                                                                                                                     | 170±2mm (68 inches)     |
|                                     | Container Height                                                                                                                                                          | 240±2mm (96 inches)     |
|                                     | Total Height                                                                                                                                                              | 240±2mm (96 inches)     |
| <b>Weight</b>                       | Approx.43 Kg (94.6 lbs)                                                                                                                                                   |                         |
| <b>Terminal</b>                     | F12( M8)                                                                                                                                                                  |                         |
| <b>Container Material</b>           | A.B.S. UL94-HB, UL94-V0 Optional                                                                                                                                          |                         |
| <b>Rated Capacity(25°C)</b>         | 157.6 Ah                                                                                                                                                                  | (20hr, 1.75V/cell)      |
|                                     | 150.00 Ah                                                                                                                                                                 | (10hr, 1.8V/cell)       |
|                                     | 127.30 Ah                                                                                                                                                                 | (5hr, 1.75V/cell)       |
|                                     | 110.70 Ah                                                                                                                                                                 | (3hr, 1.7V/cell)        |
| <b>Max. Discharge Current</b>       | 1500A (5s)                                                                                                                                                                |                         |
| <b>Internal Resistance(25°C)</b>    | Approx 4.0mΩ                                                                                                                                                              |                         |
| <b>Operating Temp. Range</b>        | Discharge                                                                                                                                                                 | -40 ~ 60°C (-4 ~ 140°F) |
|                                     | Charge                                                                                                                                                                    | -20 ~ 50°C (14 ~ 122°F) |
|                                     | Storage                                                                                                                                                                   | -40 ~ 60°C (-4 ~ 140°F) |
| <b>Nominal Operating Temp.Range</b> | 25±5°C (77±5°F )                                                                                                                                                          |                         |
| <b>Cycle Use</b>                    | Initial Charging Current less than 45A. Voltage 14.2V~14.4V at 25 ° C (77°F)Temp. Coefficient -4mV/ °C                                                                    |                         |
| <b>Standby Use</b>                  | Initial Charging Current less than 45A. Voltage 13.6V~13.8V at 25 ° C (77°F)Temp. Coefficient -3mV/°C                                                                     |                         |
| <b>Effect of temp. to Capacity</b>  | 40° C (104°F)                                                                                                                                                             | 103%                    |
|                                     | 25°C ( 77°F)                                                                                                                                                              | 100%                    |
|                                     | 0° C ( 32°F)                                                                                                                                                              | 86%                     |
| <b>Self Discharge</b>               | BPG series batteries may be stored for 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. |                         |



### Layout



| Constant Current Discharge Data Sheet (@25°C) Unit: A |        |        |        |    |     |      |      |      |      |      |      |
|-------------------------------------------------------|--------|--------|--------|----|-----|------|------|------|------|------|------|
| End Voltage (V)                                       | 10 min | 15 min | 30 min | 1h | 2 h | 3 h  | 4 h  | 5 h  | 8 h  | 10 h | 20 h |
| 1.60V                                                 | 360    | 284    | 160    | 94 | 63  | 39.5 | 29.4 | 27.2 | 18.4 | 15.6 | 8.04 |
| 1.65V                                                 | 343    | 270    | 152    | 92 | 61  | 38.5 | 28.5 | 26.6 | 18.0 | 15.4 | 7.99 |
| 1.70V                                                 | 327    | 257    | 146    | 90 | 60  | 37.4 | 28.1 | 26.0 | 17.6 | 15.3 | 7.93 |
| 1.75V                                                 | 311    | 246    | 139    | 87 | 58  | 36.6 | 26.8 | 25.4 | 17.3 | 15.1 | 7.86 |
| 1.80V                                                 | 296    | 234    | 132    | 85 | 57  | 35.7 | 26.0 | 24.8 | 16.9 | 15.0 | 7.83 |

| Constant Power Discharge Data Sheet (@25°C) Unit: W |        |        |        |      |     |     |     |     |     |      |      |
|-----------------------------------------------------|--------|--------|--------|------|-----|-----|-----|-----|-----|------|------|
| End Voltage (V)                                     | 10 min | 15 min | 30 min | 1h   | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h | 20 h |
| 1.60V                                               | 3851   | 3372   | 2061   | 1202 | 655 | 490 | 378 | 315 | 239 | 184  | 100  |
| 1.65V                                               | 3668   | 3210   | 1963   | 1172 | 640 | 478 | 365 | 307 | 234 | 183  | 99   |
| 1.70V                                               | 3493   | 3058   | 1869   | 1144 | 624 | 466 | 358 | 300 | 230 | 181  | 98   |
| 1.75V                                               | 3327   | 2912   | 1781   | 1117 | 609 | 454 | 346 | 292 | 225 | 179  | 97   |
| 1.80V                                               | 3168   | 2774   | 1696   | 1089 | 594 | 444 | 334 | 285 | 221 | 177  | 96   |

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### Applications

- Pumps systems
- Solar lighting systems
- Telecom stations and power stations
- Solar/wind energy storage systems

### General Features

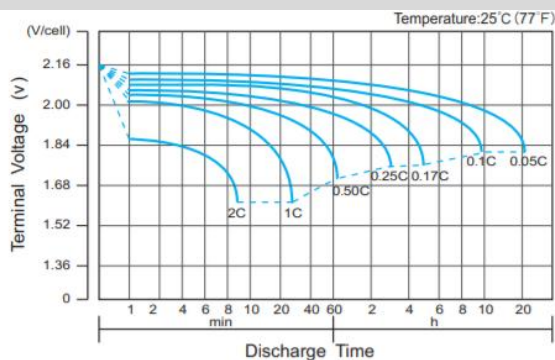
- 15-18 years design life(25°C)
- Adopt advanced GEL technology
- High purity raw material
- Thick plate design
- Special grid alloy and paste formula
- High-temperature curing technology and low

### Standards

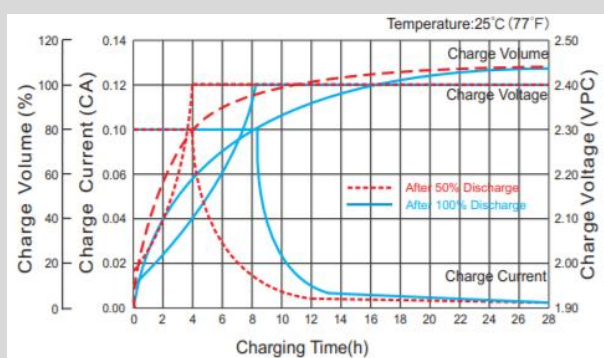
- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in ISO45001,ISO 9001 and ISO 14001 certified production facilities

⚠ NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

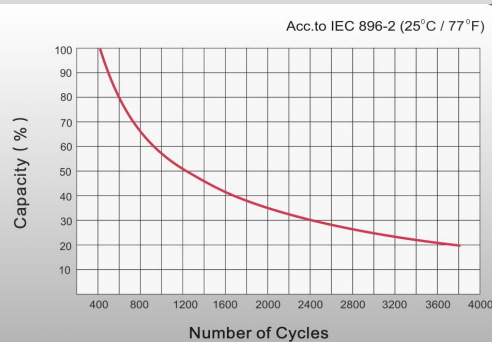
#### Discharge Characteristics



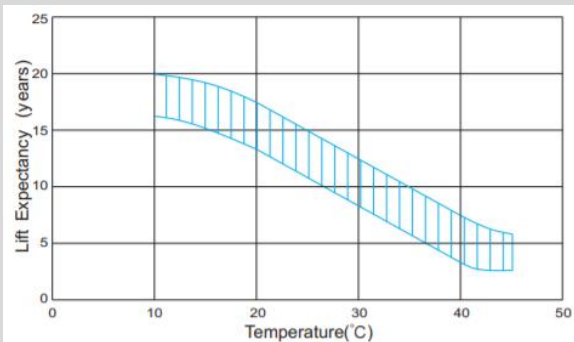
#### Charge Characteristic



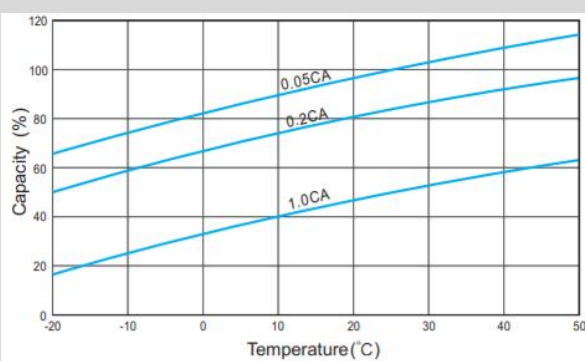
#### Cycle Life in Relation to Depth of Discharge



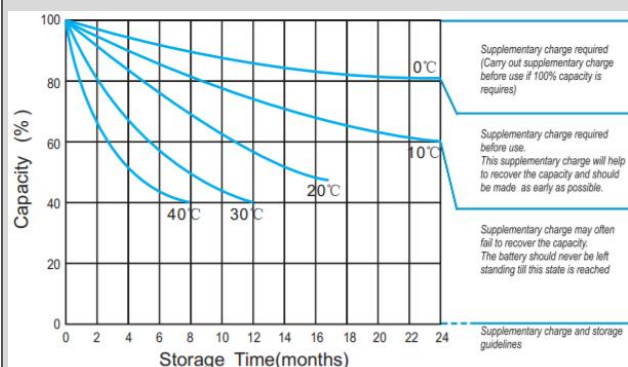
#### Temperature vs Float Life



#### Capacity Curve At Different Temperature



#### Self Discharge Characteristics



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