

# BLUGY BATTERY

## BGM12120



### TOP TERMINATION BATTERY

- BLUGY offers 12 years maintenance free design life.
- The BLUGY battery features top termination.
- This battery is highly rsuited to UPS systems, switchgear, CATV and telecommunication systems applications.

#### Specifications

|  |  |
|--|--|
| Nominal Voltage                        | 12 (6 cells per unit)  |
| Nominal Capacity (25°C)                | 10HR-rate(to10.8V) 100Ah   |
| Designed Floating Life (20°C)          | 12 Years   |
| Dimension                              | L330mm x W171mm x H227mm (214mm)   |
| Weight                                 | 29,5Kg ±2%   |
| Capacity affected & temperature (20HR) | 25°C (100%), 0°C (85%), -15°C (65%)  |
| Selfdischarge (25°C) around 3% /month  | 3 month (Remaining 91%)<br>6 month (Remaining 82%)<br>12 month (Remaining 65%) |
| Operating temperature range            | Discharge: -15°C - 50°C<br>Charge: -10°C - 50°C<br>Storage: -20°C - 50°C       |
| Nominal operating temperature          | 25°C+-3°C(77°F±5°F)  |
| Float charging voltage (25°C)          | 13.50 to 13.80 V<br>Temperature compensation: -18mV/°C                         |
| Cyclic Charging Voltage                | 14.50 to 14.90V<br>Temperature compensation: -30V/°C                           |
| Maximum charging current               | 30A  |
| Terminal material                      | Cooper   |
| Maximum discharge current              | 800A (5sec.)   |
| Terminal Type                          | T5/T9/T11  |

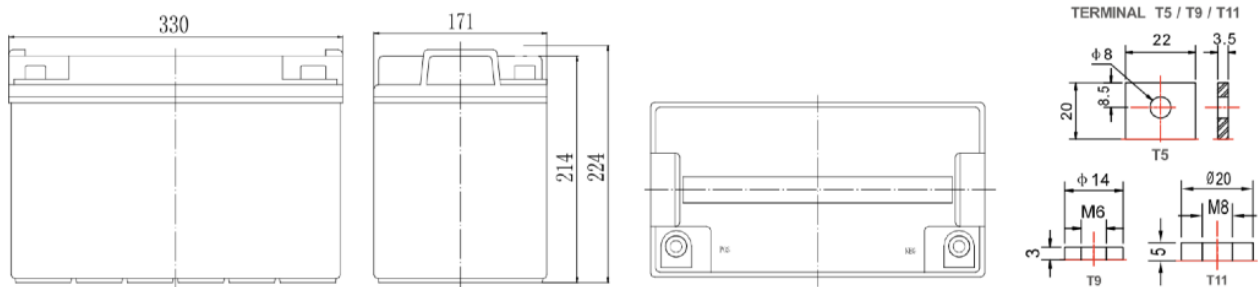
### CERTIFICATES



### STANDARDS

- IEC 60896-21/22
- GB/T19638
- BS6290 PART 4
- EUROBAT guide
- Installation Comply EN50272-2
- UL1989

## BATTERY DIMENSIONS



## BATTERY DISCHARGE TABLE

Constant current discharge characteristics (A, 25°C)

| F.V/TIME | 10min | 15min | 30min | 60min | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V    | 210   | 165   | 100   | 62.0  | 36.5 | 25.5 | 20.9 | 17.9 | 12.2 | 10.2 | 5.34 |
| 9.90V    | 204   | 161   | 98.0  | 61.1  | 36.3 | 25.4 | 20.8 | 17.7 | 12.2 | 10.2 | 5.33 |
| 10.2V    | 195   | 155   | 95.0  | 59.5  | 36.0 | 25.2 | 20.6 | 17.6 | 12.1 | 10.1 | 5.32 |
| 10.5V    | 187   | 150   | 92.7  | 58.3  | 35.5 | 25.0 | 20.5 | 17.5 | 12.0 | 10.1 | 5.29 |
| 10.8V    | 176   | 142   | 89.3  | 56.5  | 34.6 | 24.3 | 19.9 | 17.0 | 11.6 | 10.0 | 5.25 |

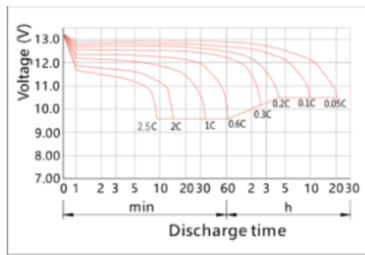
Constant power discharge characteristics (Watt, 25°C)

| F.V/TIME | 10min | 15min | 30min | 60min | 2h  | 3h  | 4h  | 5h  | 8h  | 10h | 20h  |
|----------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|------|
| 9.60V    | 2268  | 1812  | 1122  | 707   | 423 | 300 | 246 | 211 | 145 | 122 | 64.1 |
| 9.90V    | 2200  | 1768  | 1100  | 696   | 421 | 298 | 244 | 210 | 145 | 121 | 64.0 |
| 10.2V    | 2109  | 1703  | 1066  | 679   | 417 | 296 | 243 | 208 | 144 | 121 | 63.8 |
| 10.5V    | 2019  | 1645  | 1040  | 665   | 411 | 294 | 241 | 207 | 143 | 120 | 63.4 |
| 10.8V    | 1905  | 1558  | 1002  | 645   | 400 | 285 | 234 | 201 | 138 | 119 | 63.0 |

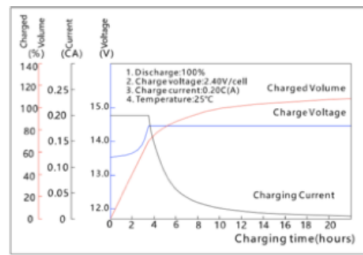
NOTE: The above characteristics data can be obtained within three charge/discharge cycles.

# CHARACTERISTICS

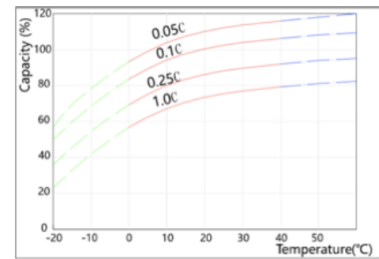
**Discharge Characteristics (25°C)**



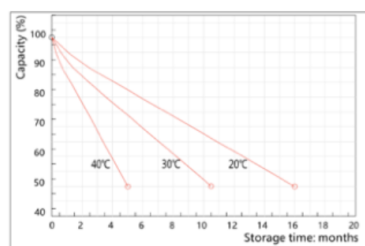
**Charging Characteristics (25°C)**



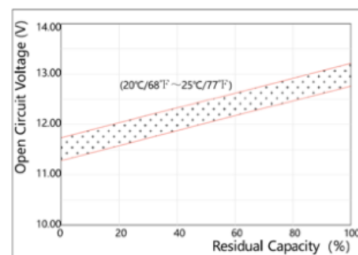
**Effect of temperature on capacity**



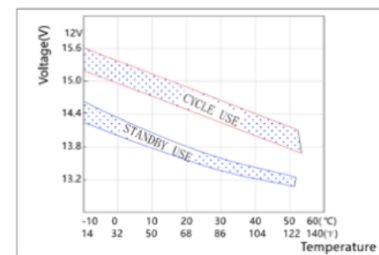
**Self-discharge Characteristic**



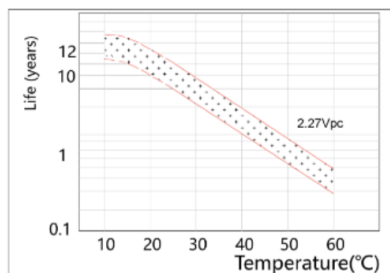
**Relationship for open circuit voltage and residual capacity (25°C)**



**Relationship for charging voltage and temperature**



**Floating life on temperature**



**Cycle life on D.O.D (25°C)**

