

## Specification

|   |  |
|---|--|
| <b>Cells Per Unit</b>                     | 6  |
| <b>Voltage Per Unit</b>                   | 12   |
| <b>Capacity</b>                           | 200 Ah @ 10hr-rate to 1.75V per cell @25°C   |
| <b>Weight</b>                             | Approx. 62kg (Tolerance ±3.0%)   |
| <b>Internal Resistance</b>                | Approx. 2.8 mΩ   |
| <b>Terminal</b>                           | F12(M8)  |
| <b>Max. Discharge Current</b>             | 2000A (5 sec)  |
| <b>Design Life</b>                        | 15 years (floating charge)   |
| <b>Max. Charging Current</b>              | 50.0 A<br>11.0A / 220AH (20hr, 1.75V/cell, 25°C/77°F)<br>20.0A / 200AH (10hr, 1.75V/cell, 25°C/77°F)<br>37.2A / 186AH ( 5hr, 1.75V/cell, 25°C/77°F)<br>55.0A / 165AH ( 3hr, 1.75V/cell, 25°C/77°F)<br>138A / 138AH ( 1hr, 1.60V/cell, 25°C/77°F) |
| <b>Reference Capacity</b>                 |  |
| <b>Float Charging Voltage</b>             | 13.6 V~13.8 V @ 25°C<br>Temperature Compensation: -3mV/°C  |
| <b>Cycle Use Voltage</b>                  | 14.4 V~14.8 V @ 25°C<br>Temperature Compensation: -4mV/°C/Cell<br>Discharge: -40°C~60°C<br>Charge: -20°C~50°C<br>Storage: -40°C~60°C   |
| <b>Operating Temperature Range</b>        |  |
| <b>Normal Operating Temperature Range</b> | 25°C ±5°C  |
| <b>Self Discharge</b>                     | Agr Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 8 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C Please charge batteries before using.                           |
| <b>Container Material</b>                 | A.B.S. UL94-HB, UL94-V0 Optional.  |



Agromot Deep Cycle Gel batteries are designed for maintenance-free usage and produced for high performance and trouble-free charge and discharges thanks to its Dry Battery Technology. Provides wide product range for power charge. Particular usage areas;

\*Motorhome, Caravan, Tiny and Wooden House

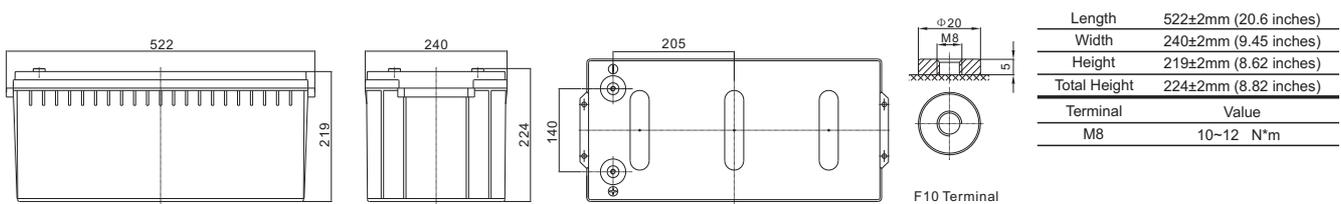
- Marine yachts and boats
- Solar powered home and workplace systems
- Telecommunication infrastructure networks
- UPS storage systems

As a result of long time experience and know-how of AGROMOT in deep discharge agm battery systems and excellent engineering technology;

•Strong Polypropylene casing•Impregnated AGM separators providing maximum reach by Deep cycle and instantaneous current draw •Controllable process calibration

provide AGROMOT to sustain among the companies in the World market for many years long in terms of quality.

## Dimensions



### Constant Current Discharge Characteristics :A(25°C)

| F.V/Time | 10MIN | 15MIN | 30MIN | 1HR   | 2HR  | 3HR  | 4HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60V    | 416.8 | 356.0 | 210.2 | 129.2 | 77.1 | 57.2 | 45.2 | 39.2 | 26.4 | 20.8 | 11.3 |
| 1.65V    | 402.1 | 348.9 | 208.9 | 128.4 | 76.9 | 56.5 | 44.9 | 38.9 | 26.2 | 20.6 | 11.2 |
| 1.70V    | 381.6 | 346.2 | 207.5 | 127.5 | 76.4 | 56.0 | 44.6 | 38.5 | 25.9 | 20.5 | 11.1 |
| 1.75V    | 356.4 | 326.4 | 206.4 | 125.6 | 76.0 | 55.2 | 44.2 | 37.2 | 25.6 | 20.3 | 11.0 |
| 1.80V    | 321.9 | 305.7 | 197.2 | 123.9 | 74.9 | 54.6 | 43.5 | 36.8 | 23.8 | 20.0 | 10.8 |
| 1.85V    | 296.5 | 286.4 | 183.0 | 120.4 | 72.8 | 52.3 | 42.1 | 36.2 | 23.2 | 18.9 | 10.5 |

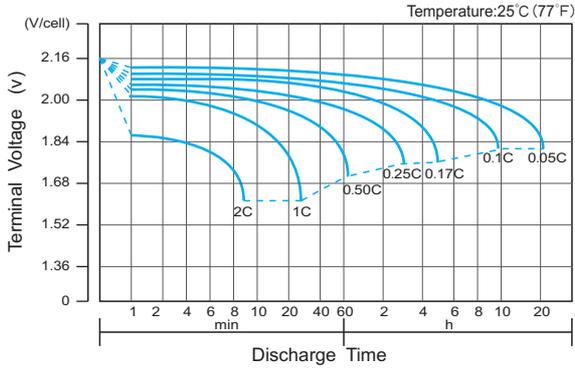
### Constant Power Discharge Characteristics : WPC(25°C)

| F.V/Time | 10MIN | 15MIN | 30MIN | 1HR   | 2HR   | 3HR   | 4HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V    | 702.4 | 626.5 | 396.2 | 249.3 | 149.5 | 111.5 | 88.5 | 76.8 | 52.2 | 41.1 | 21.6 |
| 1.65V    | 683.5 | 614.0 | 385.2 | 234.8 | 148.4 | 110.9 | 87.5 | 76.2 | 51.8 | 40.7 | 21.4 |
| 1.70V    | 648.2 | 609.2 | 375.5 | 229.4 | 147.6 | 110.2 | 87.0 | 75.4 | 51.2 | 40.5 | 21.2 |
| 1.75V    | 605.8 | 594.9 | 360.0 | 227.6 | 146.8 | 109.4 | 86.3 | 72.9 | 50.6 | 40.2 | 21.1 |
| 1.80V    | 547.6 | 557.3 | 357.9 | 220.6 | 145.9 | 108.7 | 85.5 | 72.1 | 47.1 | 39.6 | 21.0 |
| 1.85V    | 511.8 | 486.4 | 351.4 | 218.7 | 142.8 | 107.6 | 83.9 | 70.9 | 45.9 | 37.5 | 20.8 |

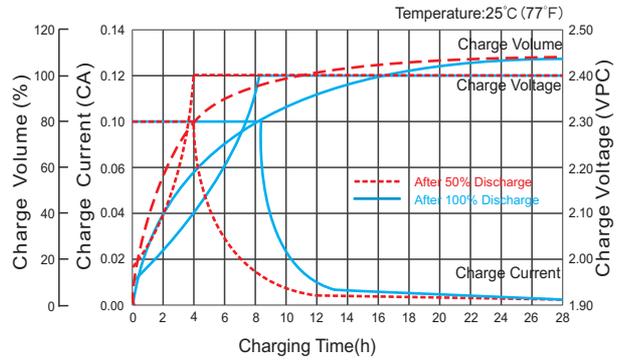
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

The battery must be fully charged before the capacity test. The C<sub>20</sub> should reach 95% after the first cycle and 100% after the third cycle.

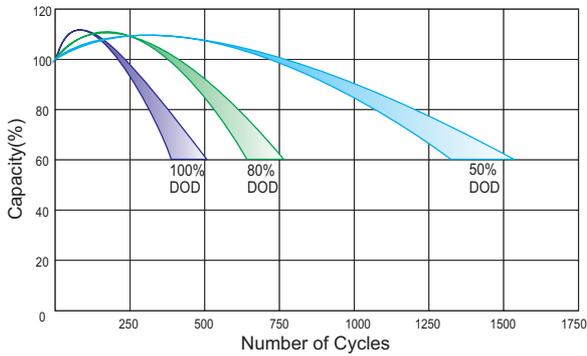
### Discharge Characteristics Curve



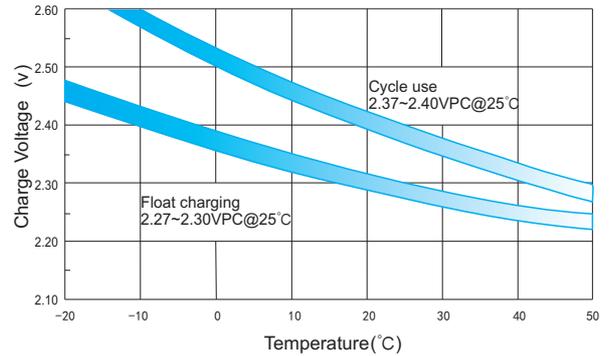
### Charge Characteristic Curve for Cycle Use(IU)



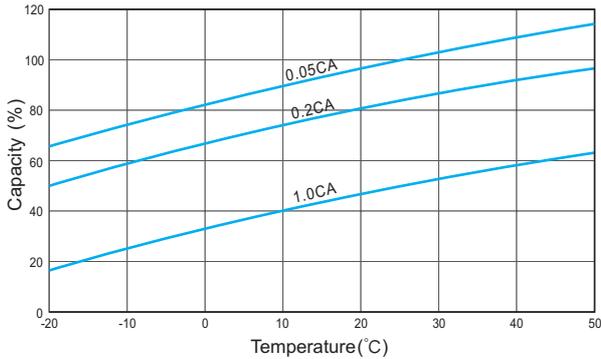
### Cycle Life in Relation to Depth of Discharge



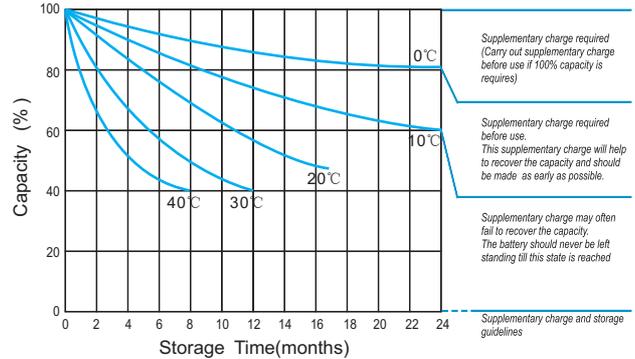
### Relationship Between Charging Voltage and Temperature



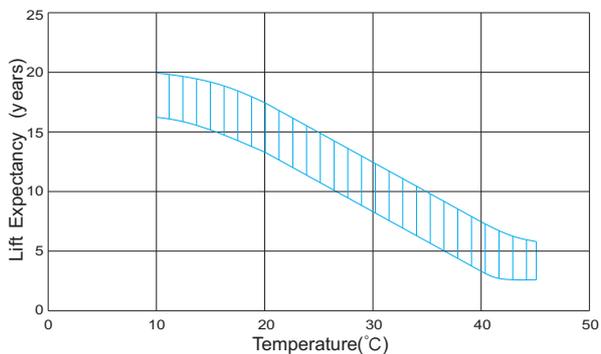
### Temperature Effects on Capacity



### Storage Characteristics



### Effect of Temperature on Long Term Life



### Relationship of OCV And State of Charge(20°C)

