



## ENERGY STORAGE BATTERY - GEL DEEP CYCLE SERIES

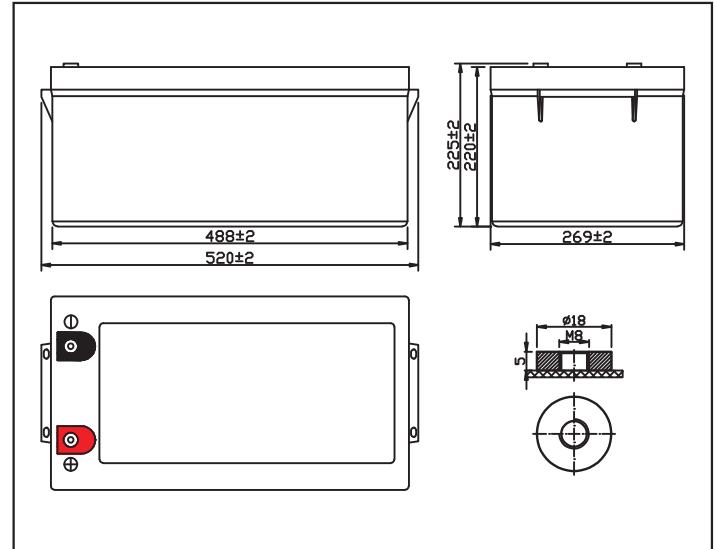
**MODEL: OT250-12(GEL)/CD**

**NO.: 302020001-00047**



### Plane Chart:

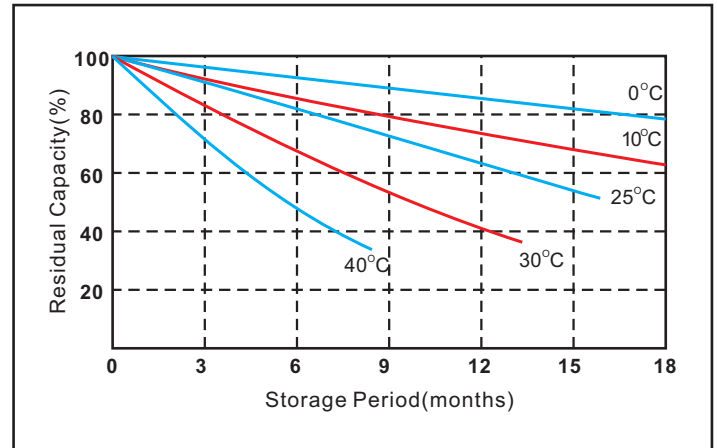
Unit:(mm) Terminal type:(T2)



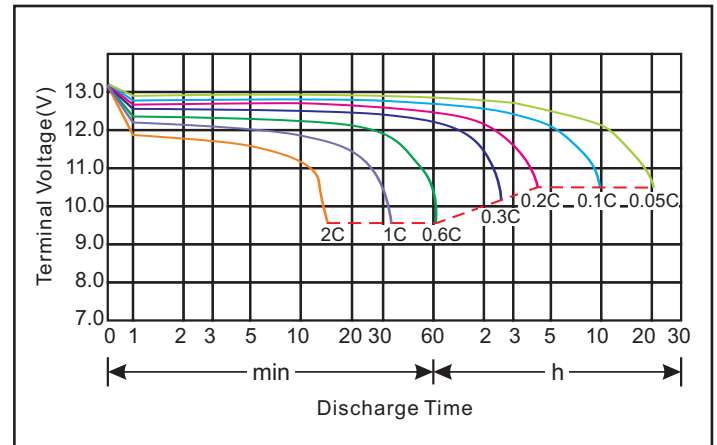
### Parameter Chart:

| Volts                            |                                  | 12V                                                          |
|----------------------------------|----------------------------------|--------------------------------------------------------------|
| Capacity(25°C)                   | 10 hours rate (25A)              | 250Ah                                                        |
| Discharge Current Testing (25°C) | 1 hours rate (137.5A)            | 160Ah                                                        |
|                                  | 3 hours rate (62.5A)             | 195Ah                                                        |
| Internal Resistance              | Full Charged Battery 25°C        | 3mΩ                                                          |
| Capacity Affected By Temperature | 40°C                             | 104%                                                         |
|                                  | 25°C                             | 100%                                                         |
|                                  | 0°C                              | 83%                                                          |
|                                  | -15°C                            | 65%                                                          |
| Residual Capacity (25°C)         | Capacity After 3 Months Storage  | 91%                                                          |
|                                  | Capacity After 6 Months Storage  | 82%                                                          |
|                                  | Capacity After 12 Months Storage | 65%                                                          |
| Charge (Constant Voltage)        | Cycle (25°C)                     | Initial Charging Current Less Than 75A<br>Voltage 14.5~14.9V |
|                                  | Float (25°C)                     | Charge Voltage 13.6~13.8V                                    |
| Weight (Approx)                  |                                  | 72.3Kg                                                       |

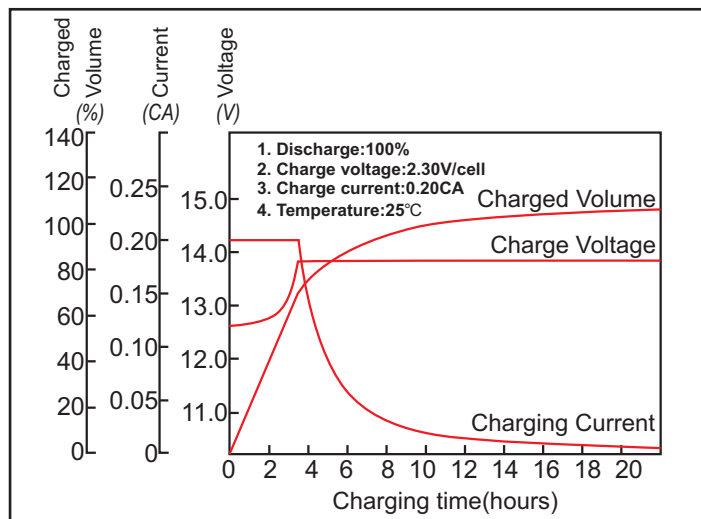
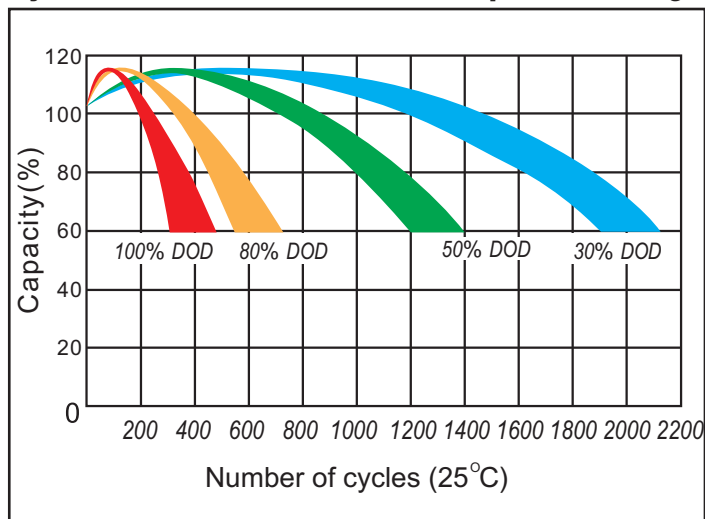
### Residual Capacity



### Discharge Current 25°C



★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

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**Constant voltage charging characteristics**

**Cycle service life in relation to the depth of discharge**

**Constant Current Discharge Characteristics (A, 25°C)**

| F.V/Time | 15min | 30min | 60min | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V    | 366.3 | 257.1 | 155.6 | 88.7 | 65.6 | 50.7 | 44.3 | 29.6 | 25.3 | 13.0 |
| 10.2V    | 351.1 | 246.4 | 151.4 | 87.3 | 63.2 | 50.1 | 43.7 | 29.3 | 25.2 | 12.9 |
| 10.5V    | 344.5 | 241.6 | 148.4 | 86.5 | 62.3 | 49.8 | 43.3 | 29.1 | 25.1 | 12.8 |
| 10.8V    | 333.6 | 234.8 | 144.6 | 85.6 | 60.5 | 48.2 | 42.8 | 29.1 | 25.0 | 12.8 |

**Constant Power Discharge Characteristics (Watt, 25°C)**

| F.V/Time | 15min  | 30min  | 60min  | 2h     | 3h    | 4h    | 5h    | 8h    | 10h   | 20h   |
|----------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 9.60V    | 3956.2 | 2884.4 | 1711.6 | 1026.5 | 729.6 | 596.7 | 523.9 | 354.1 | 294.0 | 156.2 |
| 10.2V    | 3866.3 | 2769.0 | 1725.4 | 1010.9 | 718.9 | 588.9 | 516.1 | 351.2 | 293.2 | 154.3 |
| 10.5V    | 3789.7 | 2709.8 | 1707.1 | 1001.2 | 713.1 | 585.0 | 511.3 | 345.4 | 292.4 | 153.3 |
| 10.8V    | 3669.9 | 2631.2 | 1662.4 | 990.6  | 704.4 | 567.6 | 505.5 | 349.3 | 291.1 | 152.7 |

**Capacity Factors With Different Temperature**

| Battery Type |     | -20°C | -10°C | 0°C | 5°C | 10°C | 20°C | 25°C | 30°C | 40°C | 45°C |
|--------------|-----|-------|-------|-----|-----|------|------|------|------|------|------|
| GEL Battery  | 12V | 50%   | 70%   | 83% | 85% | 90%  | 98%  | 100% | 102% | 104% | 105% |

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.