

GEL 12V 200Ah



Specification

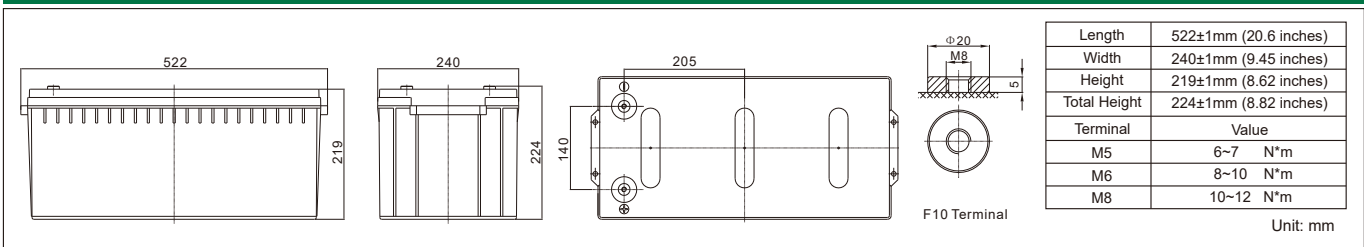
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|------------------------------------|--|
| Cells Per Unit | 6 |
| Voltage Per Unit | 12 |
| Capacity | 200Ah@20hr-rate to 1.75V per cell @25°C |
| Weight | Approx. 60.0 Kg (Tolerance±1.5%) |
| Internal Resistance | Approx. 5.2 mΩ |
| Terminal | F16(M8)/F10(M8) |
| Max. Discharge Current | 2000A (5 sec) |
| Design Life | 15 years (floating charge) |
| Maximum Charging Current | 40.0A |
| Reference Capacity | C3 136.5AH C5 151.5AH C10 174.0AH C20 200.0AH |
| Float Charging Voltage | 13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell |
| Cycle Use Voltage | 14.2 V~14.4 V @ 25°C Temperature Compensation: -4mV/°C/Cell |
| Operating Temperature Range | Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C |
| Normal Operating Temperature Range | 25°C±5°C |
| Self Discharge | Less than 3% at 25°C per month |
| Container Material | A.B.S. UL94-HB, UL94-V0 Optional. |



Application

- Solar/Wind Power System
- Uninterruptible Power Supplies (UPS)
- Electric Power Systems (EPS)
- Emergency Backup Power Supplies
- Communication Power Supplies
- DC Power Supplies
- Auto Control System

Dimensions



Constant Current Discharge Characteristics : A(25°C)

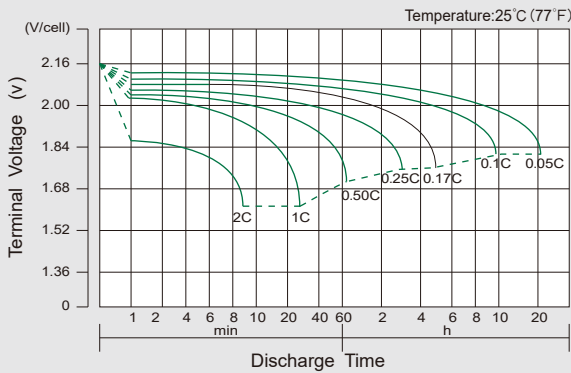
| F.V/Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 273.6 | 183.4 | 111.8 | 66.9 | 46.2 | 37.9 | 31.0 | 21.4 | 18.1 | 11.0 |
| 1.65V | 268.0 | 181.8 | 111.3 | 66.4 | 46.1 | 37.7 | 30.8 | 21.2 | 17.9 | 10.6 |
| 1.70V | 263.8 | 180.7 | 110.2 | 65.9 | 45.7 | 37.5 | 30.7 | 21.0 | 17.7 | 10.3 |
| 1.75V | 254.1 | 177.9 | 109.2 | 65.4 | 45.5 | 37.2 | 30.3 | 20.8 | 17.5 | 10.0 |
| 1.80V | 237.0 | 171.7 | 106.6 | 64.2 | 44.3 | 36.3 | 29.7 | 20.5 | 17.4 | 9.40 |
| 1.85V | 215.0 | 162.4 | 101.3 | 61.4 | 42.3 | 34.6 | 28.5 | 19.6 | 16.8 | 9.00 |

Constant Power Discharge Characteristics : WPC(25°C)

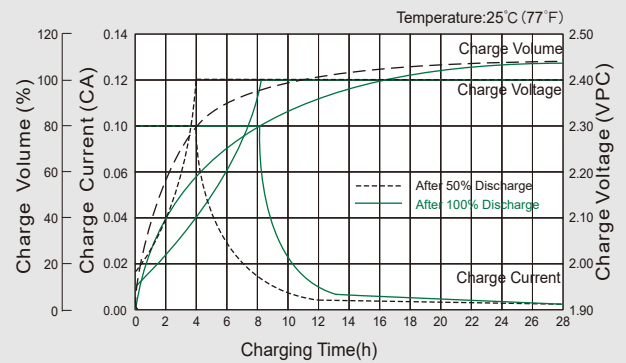
| F.V/Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-----|-----|------|------|------|------|------|------|
| 1.60V | 502 | 348 | 215 | 131 | 91.8 | 75.3 | 61.7 | 42.5 | 36.0 | 19.5 |
| 1.65V | 494 | 344 | 215 | 131 | 91.7 | 75.2 | 61.5 | 42.3 | 35.8 | 19.1 |
| 1.70V | 488 | 345 | 213 | 130 | 91.3 | 75.0 | 61.3 | 42.0 | 35.4 | 18.8 |
| 1.75V | 471 | 341 | 211 | 129 | 91.0 | 74.3 | 60.6 | 41.7 | 35.1 | 18.4 |
| 1.80V | 440 | 330 | 207 | 127 | 88.5 | 72.6 | 59.5 | 41.0 | 34.7 | 18.1 |
| 1.85V | 401 | 313 | 198 | 123 | 84.7 | 69.1 | 56.9 | 39.3 | 33.7 | 17.0 |

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

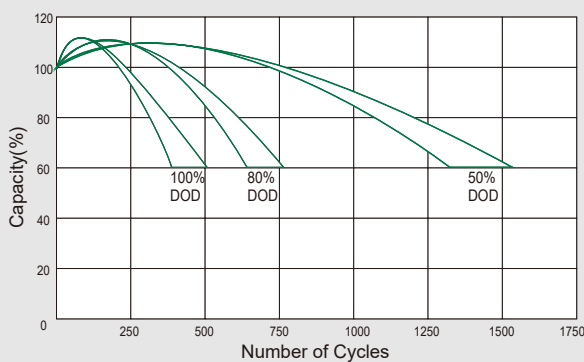
Discharge Characteristics Curve



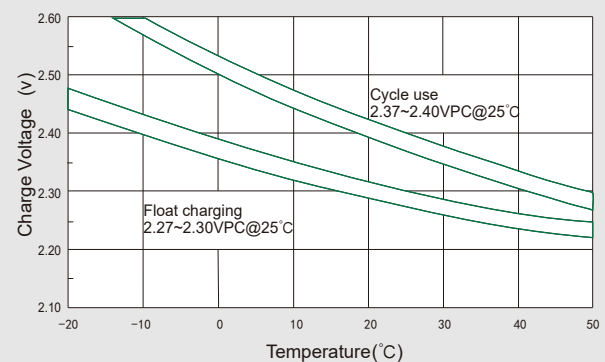
Charge Characteristic Curve for Cycle Use(IU)



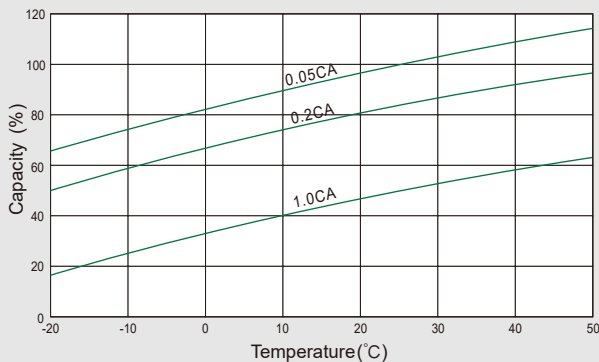
Cycle Life in Relation to Depth of Discharge



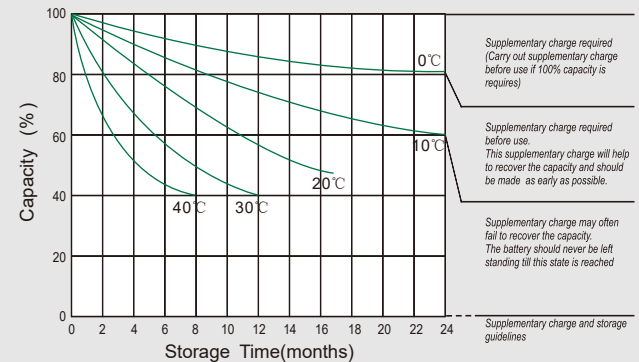
Relationship Between Charging Voltage and Temperature



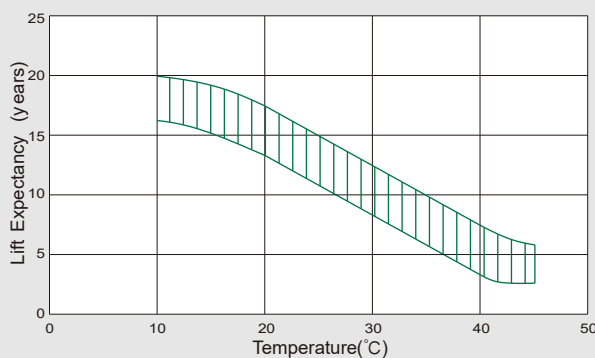
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



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

