

6FM200GEL (12V200Ah)

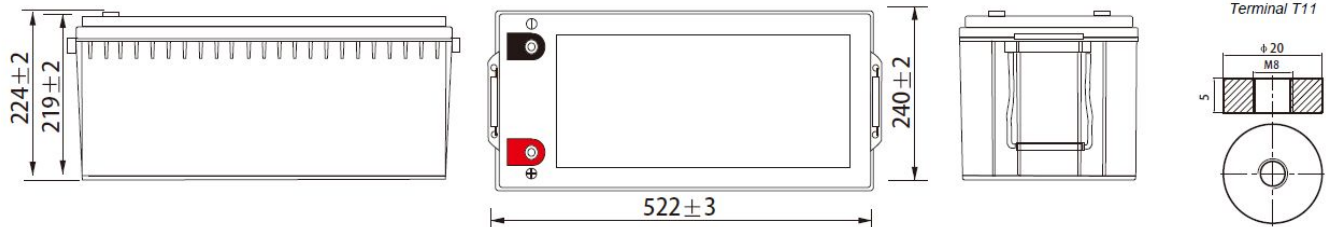
6FM200GEL is GEL battery with 12years floating design life, Specially designed for frequent cyclic discharge usage. By using strong grid and Gelled Acid technology, it makes battery have 30% more cyclic life time than standby series. It is applicable for solar energy system, golf car, electric wheelchair, etc.



Specifications:

| | |
|-------------------------------------|---|
| Cells per Unit | 6 |
| Normal Voltage | 12V |
| Capacity | 200Ah@10Hr-rate to 1.80V per cell@25°C |
| Weight | Approx. (62±3%) kg (136.7lbs) |
| Maximum Discharge Current | 400A(5sec) |
| Internal Resistance | Approx. 4.5mΩ full charged @25°C |
| Operating Temperature Range | Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C |
| Nominal Operating Temperature Range | 25°C±3°C |
| Float Charging Voltage | 13.7~13.9VDC/unit Average @25°C; Temperature compensation -30mV/°C |
| Maximum Charging Current | 50A |
| Equalization and Cycle Service | 14.4V~15.0VDC/unit Average @ 25°C; Temperature compensation -20mV/°C |
| Self Discharge | LONGWAY GEL Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using. |
| Terminal | Terminal F19 |
| Container Material | ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request |

Dimensions: L522*W240*H219(TH224)



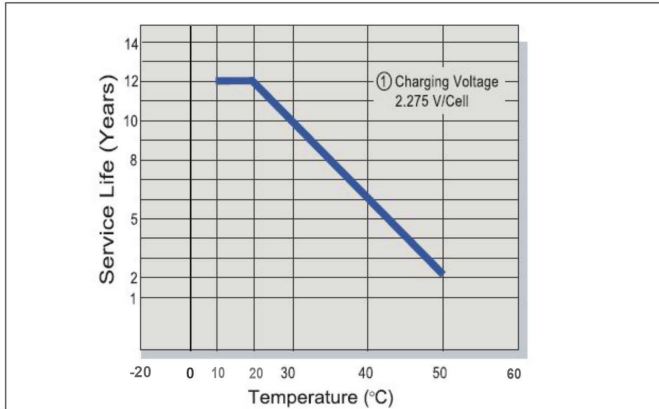
Constant Current Discharge Characteristics (A, 25 °C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| 9.60 | 516 | 396 | 310 | 208.0 | 126.0 | 77.1 | 53.8 | 36.5 | 24.36 | 20.30 | 10.66 |
| 9.90 | 501 | 384 | 303.8 | 203.8 | 123.5 | 76.8 | 53.5 | 36.4 | 24.24 | 20.20 | 10.61 |
| 10.2 | 490 | 376 | 297.6 | 199.7 | 121.0 | 76.0 | 53.0 | 36.0 | 24.14 | 20.12 | 10.56 |
| 10.5 | 475 | 364 | 288.3 | 193.4 | 117.2 | 75.2 | 52.5 | 35.6 | 24.06 | 20.05 | 10.53 |
| 10.8 | 402 | 354 | 282.7 | 189.7 | 114.9 | 74.5 | 51.9 | 35.3 | 24.00 | 20.00 | 10.50 |

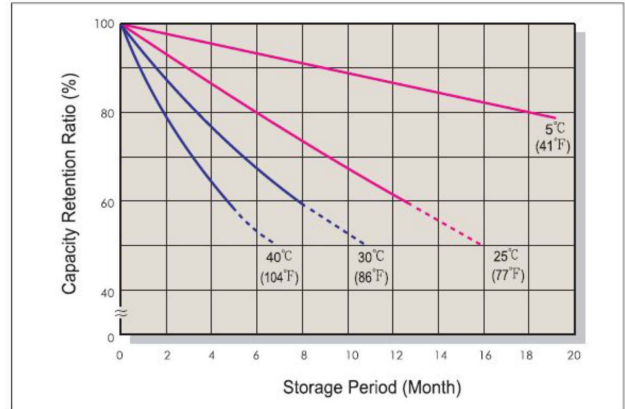
Constant Power Discharge Characteristics (Watt, 25 °C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|------|-------|-------|-------|-------|-----|-----|-----|-------|-------|-------|
| 9.60 | 5418 | 4277 | 3404 | 2334 | 1436 | 893 | 633 | 432 | 292.3 | 242.4 | 127.9 |
| 9.90 | 5255 | 4148 | 3336 | 2287 | 1408 | 889 | 630 | 430 | 290.9 | 241.2 | 127.3 |
| 10.2 | 5147 | 4063 | 3268 | 2240 | 1379 | 880 | 623 | 426 | 289.7 | 240.2 | 126.8 |
| 10.5 | 4985 | 3935 | 3166 | 2170 | 1336 | 871 | 617 | 421 | 288.7 | 239.4 | 126.3 |
| 10.8 | 4226 | 3819 | 3104 | 2128 | 1310 | 862 | 611 | 417 | 288.0 | 238.8 | 126.0 |

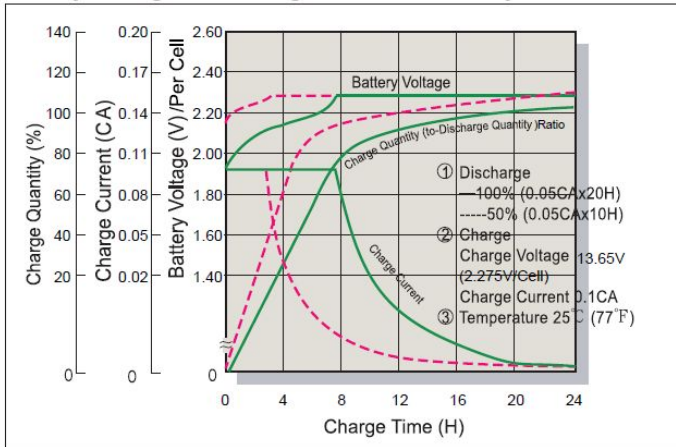
Trickle (or Float) Service Life



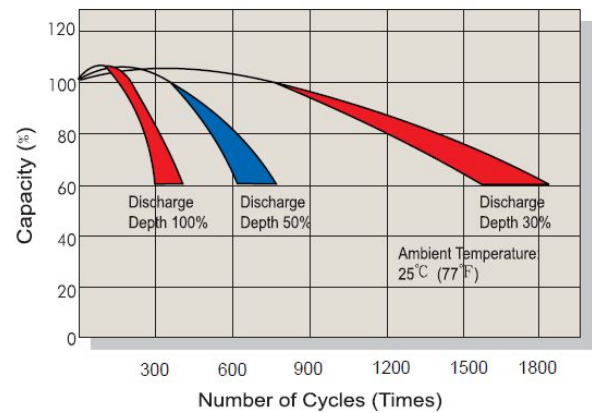
Capacity Retention Characteristic



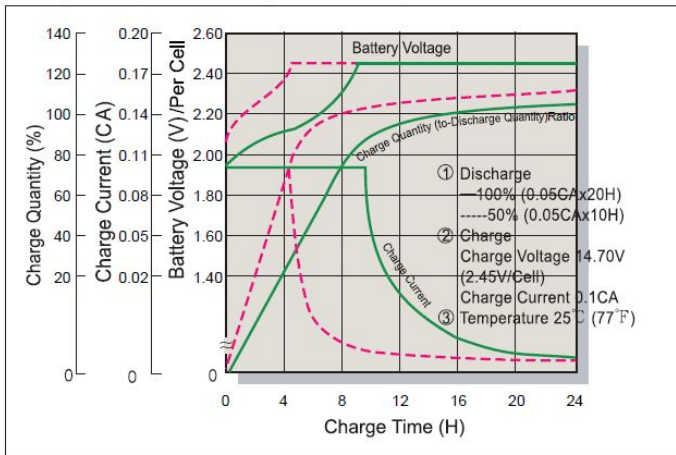
Battery Voltage and Charge Time for Standby Use



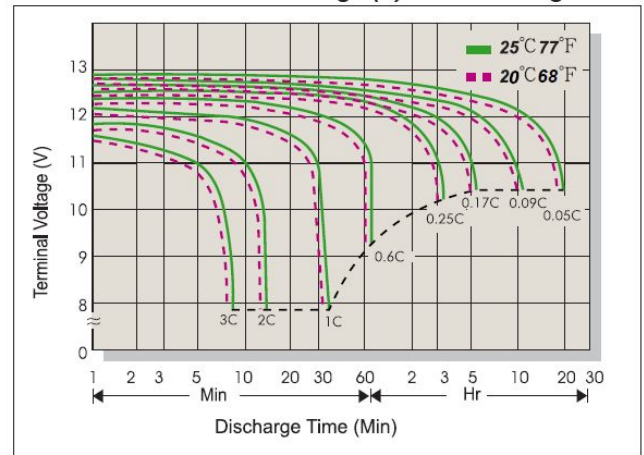
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

| Application | Charge Voltage(V/cell) | | | Max. Charge Current |
|-------------|------------------------|-----------|-----------------|---------------------|
| | Temperature | Set Point | Allowable Range | |
| Cycle Use | 25°C(77°F) | 2.45 | 2.40~2.50 | 0.25 C |
| Standby | 25°C(77°F) | 2.275 | 2.25~2.30 | |

Discharge Current VS. Discharge Voltage

| Final Discharge Voltage V/cell | 1.75 | 1.70 | 1.65 | 1.60 |
|--------------------------------|------------|------------|------------|------------|
| Discharge Current (A) | 0.2C > (A) | 0.2C < (A) | 0.5C < (A) | (A) > 1.0C |

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