

DEEP CYCLE MARINE BATTERY



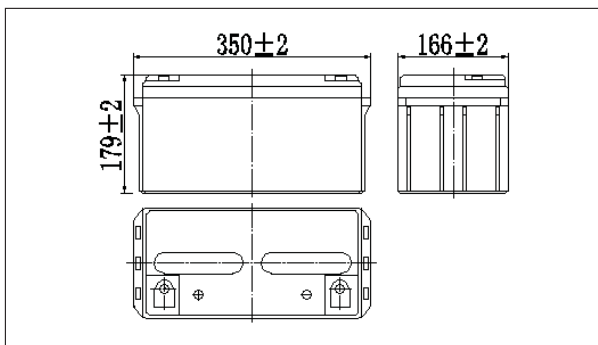
BB1265FM 12V65Ah

Specifications

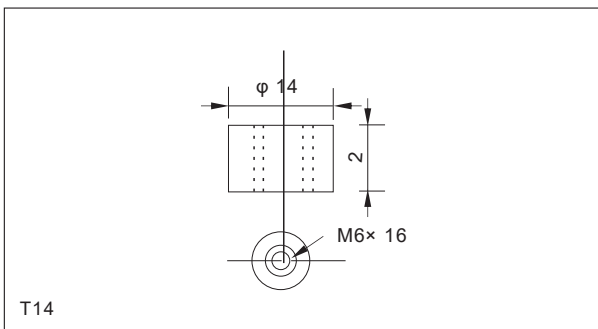
| | | |
|-------------------------------|----------------------|---------------------|
| Nominal Voltage | 12V | |
| Rated capacity (10 hour rate) | 65Ah | |
| Dimensions | Length | 350± 2mm(13.78inch) |
| | Width | 166± 2mm(6.54inch) |
| | Height | 179± 2mm(7.05inch) |
| | Total Height | 179± 2mm(7.05inch) |
| Approx. Weight | 15.0kg(33.0 lbs)± 3% | |



Outer dimensions (mm)



Terminal Type (mm)



Characteristics

| | | |
|-------------------------------------------|-------------|-------------------------------------------------------|
| Capacity (25°C) | 10HR(10.8V) | 65Ah |
| | 3HR(10.8V) | 48Ah |
| | 1HR(10.5V) | 36Ah |
| Terminal type | | T14 |
| Internal resistance (Fully charged, 25°C) | | Approx. 7m Ω |
| Capacity affected by temperature (10HR) | 40°C | 102% |
| | 25°C | 100% |
| | 0°C | 85% |
| | -15°C | 65% |
| Self-discharge (25°C) | 3 months | Remaining Capacity:91% |
| | 6 months | Remaining Capacity:82% |
| | 12 months | Remaining Capacity:65% |
| Nominal operating temperature | | 25°C ± 3°C(77°F ± 5°F) |
| Operating temperature range | Discharge | -15°C~50°C(5°F~122°F) |
| | Charge | -10°C~50°C(14°F~122°F) |
| | Storage | -20°C~50°C(-4°F~122°F) |
| Float charging voltage(25°C) | | 13.50 to 13.80V Temperature compensation: -18mV/°C |
| Cyclic charging voltage(25°C) | | 14.50 to 14.70V Temperature compensation: -30mV/°C |
| Maximum charging current | | 13A |
| Maximum discharge current | | 650A(5 sec.) |
| Designed floating life(20°C) | | 12years |

Construction

| Component | Positive plate | Negative plate | Container | Cover | Separator | Electrolyte | Safety valve | Terminal |
|--------------|----------------|----------------|-----------|-------|-----------|-------------|--------------|----------|
| Raw material | Lead dioxide | Lead | ABS | ABS | AGM | Gel | Rubber | Copper |

Constant Current Discharge Characteristics Unit:A(25°C,77°F)

| F.V/Time | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V | 127 | 104 | 63.1 | 39.0 | 23.8 | 16.9 | 13.3 | 11.3 | 7.96 | 6.62 | 3.51 |
| 9.90V | 123 | 102 | 61.8 | 38.4 | 23.6 | 16.8 | 13.2 | 11.2 | 7.91 | 6.60 | 3.50 |
| 10.2V | 118 | 97.8 | 59.9 | 37.4 | 23.4 | 16.7 | 13.1 | 11.1 | 7.85 | 6.58 | 3.49 |
| 10.5V | 113 | 94.4 | 58.4 | 36.3 | 23.0 | 16.6 | 13.0 | 11.1 | 7.80 | 6.55 | 3.47 |
| 10.8V | 106 | 89.4 | 56.3 | 35.1 | 22.5 | 16.2 | 12.6 | 10.7 | 7.57 | 6.50 | 3.45 |

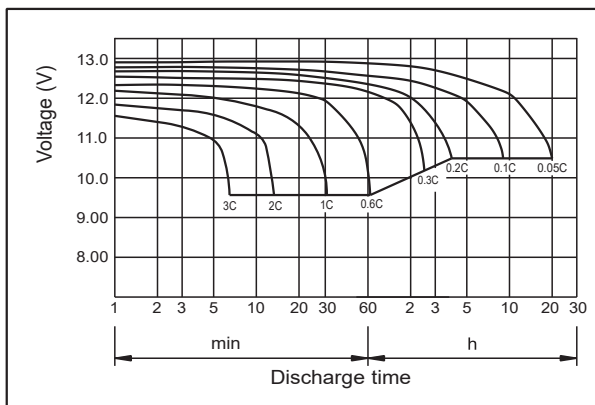
Constant Power Discharge Characteristics Unit:W(25°C,77°F)

| F.V/Time | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-----|-----|-----|-----|------|------|------|
| 9.60V | 1369 | 1142 | 707 | 445 | 275 | 199 | 156 | 133 | 94.5 | 79.0 | 42.1 |
| 9.90V | 1328 | 1115 | 693 | 438 | 273 | 198 | 155 | 132 | 94.0 | 78.9 | 42.0 |
| 10.2V | 1273 | 1073 | 672 | 427 | 271 | 196 | 154 | 132 | 93.3 | 78.6 | 41.9 |
| 10.5V | 1218 | 1037 | 656 | 413 | 267 | 195 | 153 | 131 | 92.7 | 78.2 | 41.6 |
| 10.8V | 1150 | 982 | 632 | 400 | 260 | 191 | 148 | 124 | 89.9 | 77.6 | 41.3 |

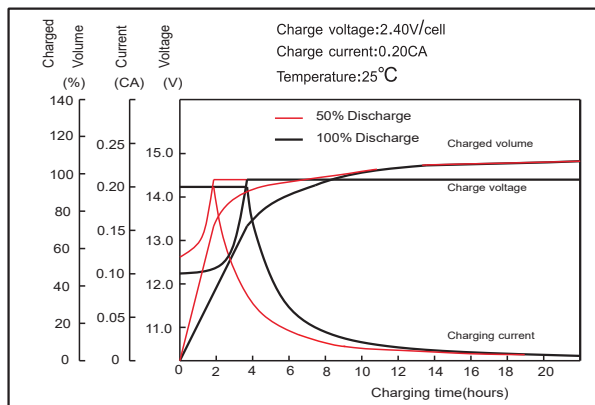
Note: The above characteristics data can be obtained within three charge or discharge cycles.

BB1265FM 12V65Ah

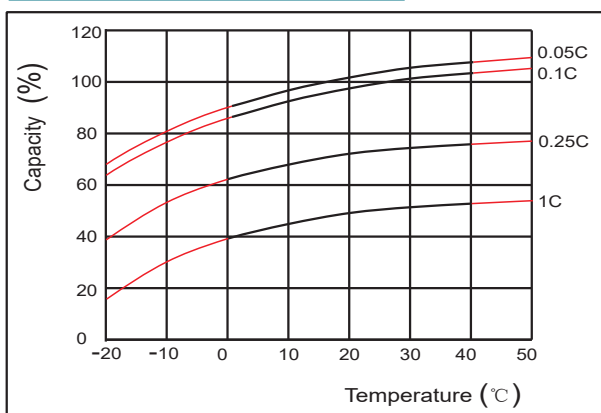
Discharge characteristics(25°C)



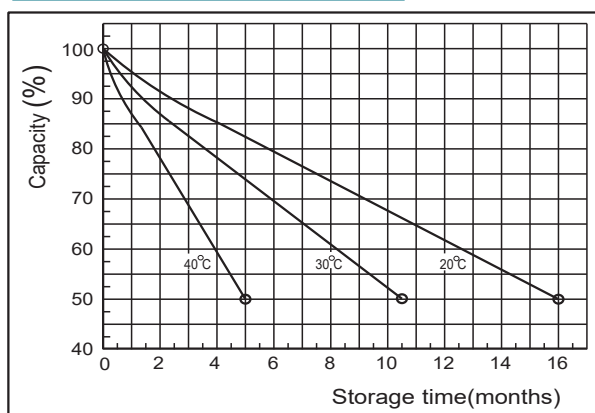
Charging characteristics (25°C)



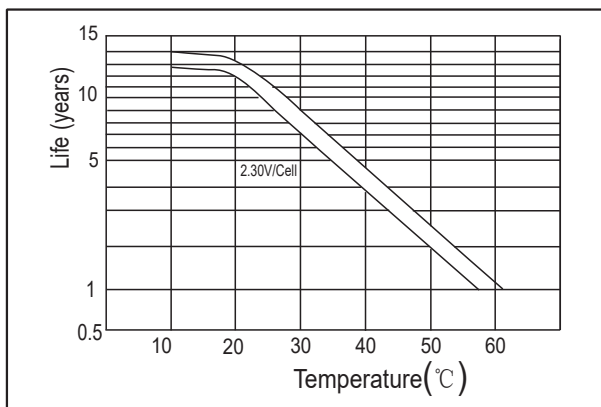
Temperature effects on Capacity



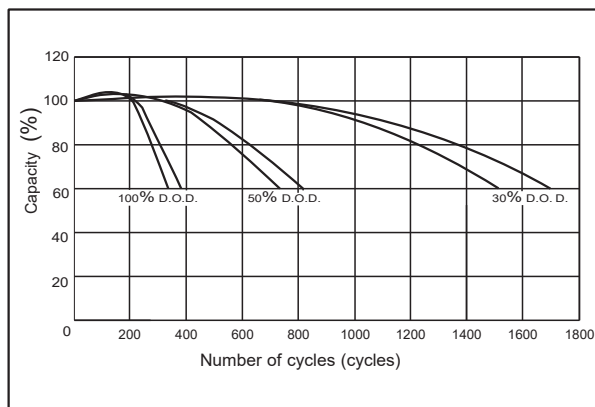
Self-discharge characteristics



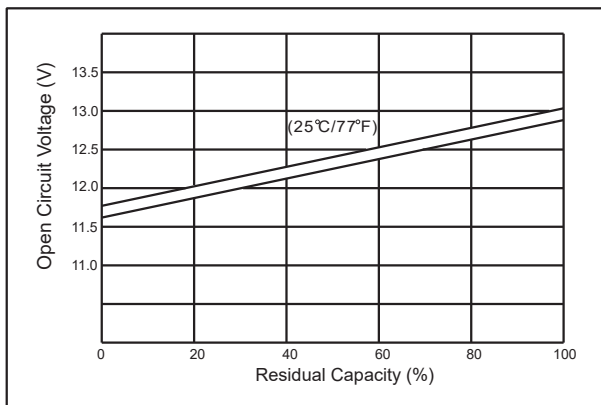
Floating life on Temperature



Cycle life on D.O.D (25°C)



The relationship for OCV and Capacity (25°C)



The relationship for Charging voltage and Temperature

