

6-FM-150

Product Image



Product Dimensions



Performance Characteristics

| | | |
|---|--------------------------|------------|
| Rated Voltage | 12V | |
| Number of cells | 6 Cells | |
| Designed Life | 5-8 Years | |
| Rated Capacity at 25°C (77°F) | 10hr rate(0.1C,10.8V) | 135Ah |
| | 3hr rate(0.25C,10.8V) | 119.5Ah |
| | 1hr rate(0.55C,10.5V) | 83.2Ah |
| Capacity affected by Temperature(10 hour rate) | 40°C(104°F) | 103% |
| | 25°C(77°F) | 100% |
| | 0°C(32°F) | 85% |
| | -15°C(5°F) | 65% |
| Charge Method:constant-voltage charging at 25°C(77°F) | Cyclic use | 14.4-14.9V |
| | Maximum charging current | 30A |
| | Temperature Compensation | -30mV/°C |
| | Float Use | 13.6-13.8V |
| Self-Discharge 25°C(77°F) Capacity | Temperature Compensation | -20mV/°C |
| | after 3 month storage | 91% |
| | after 6 month storage | 82% |
| | after 12 month storage | 64% |

| | | |
|--------------------------------------|--|----------|
| Environment Temperature Requirements | Discharge Temperature | -15-50°C |
| | Charge Temperature | 0-40°C |
| | Storage Temperature | -15-40°C |
| Inner Resistance | A fully charged battery at 25°C(77°F) | 5mΩ |
| Dimension and weight | Length | 484mm |
| | Width | 170mm |
| | Height | 241mm |
| | Total Height | 241mm |
| | Reference Weight | 42.3kg |
| General Feature | Maintenance free | |
| | Convenient for installation | |
| | Safety and no leakage | |
| | Excellent recharge and discharge performance | |
| | Adapt to high or low temperature | |
| | Good deep discharge performance | |
| | Longer cycle life | |

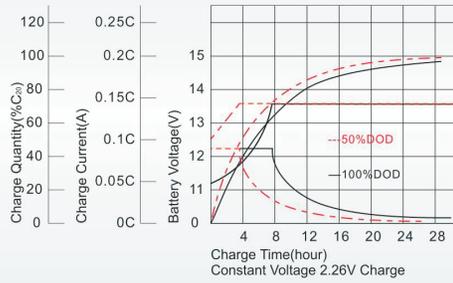
Discharge Constant Current per Cell(Amperes at 77°F 25°C)

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 356.4 | 227.2 | 193.1 | 123.3 | 90.6 | 83.2 | 52.9 | 37.1 | 25.2 | 16.6 | 14.9 | 8.25 |
| 1.65V | 349.9 | 223.1 | 189.5 | 121.0 | 88.9 | 81.6 | 51.9 | 36.5 | 24.8 | 16.3 | 14.6 | 8.10 |
| 1.70V | 343.4 | 218.9 | 186.0 | 118.8 | 87.3 | 80.1 | 50.9 | 35.8 | 24.3 | 16.0 | 14.3 | 7.95 |
| 1.75V | 337.0 | 214.8 | 182.5 | 116.5 | 85.6 | 78.6 | 50.0 | 35.1 | 23.9 | 15.7 | 14.0 | 7.80 |
| 1.80V | 324.0 | 206.6 | 175.5 | 112.1 | 82.4 | 75.6 | 48.1 | 33.8 | 23.0 | 15.1 | 13.5 | 7.50 |

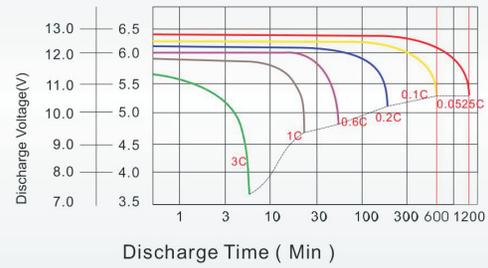
Discharge Constant Power per Cell(Watts at 77°F 25°C)

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 686.1 | 437.4 | 371.6 | 237.3 | 174.4 | 160.1 | 101.8 | 71.5 | 48.6 | 32.0 | 28.6 | 15.9 |
| 1.65V | 673.6 | 429.4 | 364.9 | 233.0 | 171.2 | 157.2 | 99.9 | 70.2 | 47.7 | 31.4 | 28.1 | 15.6 |
| 1.70V | 661.1 | 421.5 | 358.1 | 228.6 | 168.0 | 154.3 | 98.1 | 68.9 | 46.8 | 30.9 | 27.5 | 15.3 |
| 1.75V | 648.6 | 413.5 | 351.4 | 224.3 | 164.9 | 151.4 | 96.2 | 67.6 | 45.9 | 30.3 | 27.0 | 15.0 |
| 1.80V | 623.7 | 397.6 | 337.8 | 215.7 | 158.5 | 145.5 | 92.5 | 65.0 | 44.2 | 29.1 | 26.0 | 14.4 |

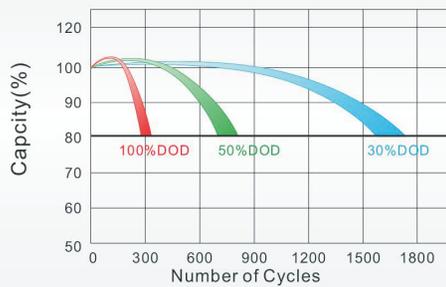
Charge Characteristics for Float Use @ 25°C/77°F



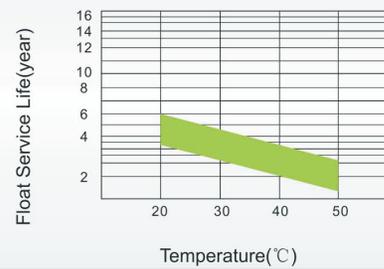
Discharge Characteristics at Various Rates @ 25°C/77°F



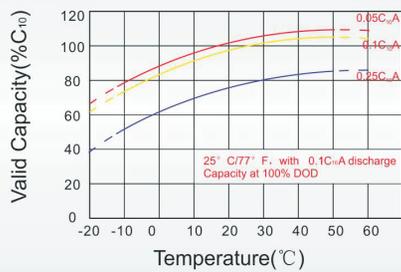
Cycle Life in Relation to Depth of Discharge



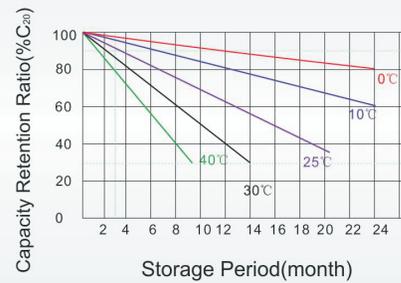
Float Service Life



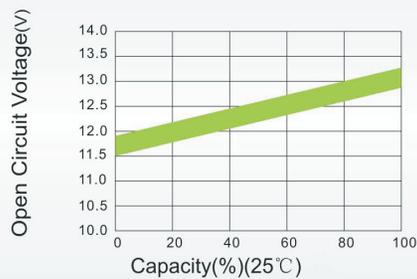
Temperature and Valid Capacity



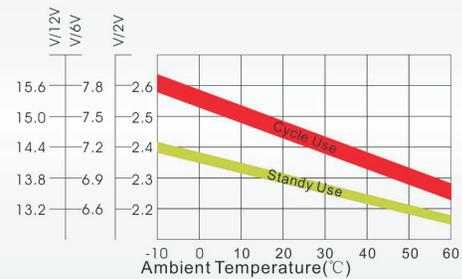
Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature



Battery Construction

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



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