

### Advantages

- High Performance according to EUROBAT Classification
- High discharge performance
- 99%+ gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling

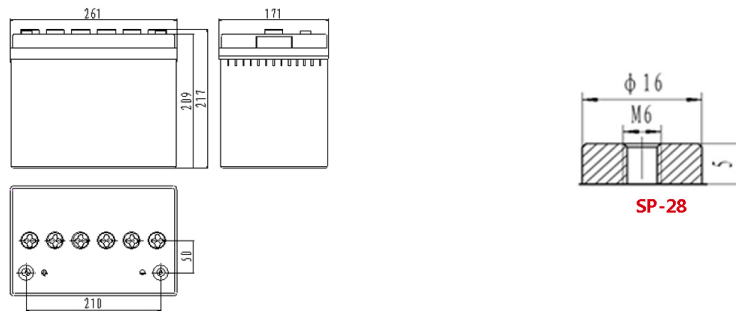
### Application

- Telecommunication
- Power system
- UPS
- Emergency power

### Standards

- IEC 60896-21/22:2004
- JIS C8704-1/2:2006
- Eurobat guide
- installation compliant with EN50272-2

### Drawing



### Specification

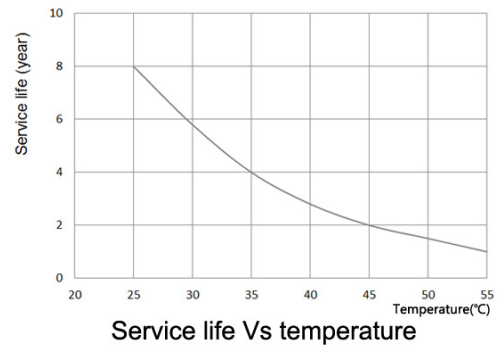
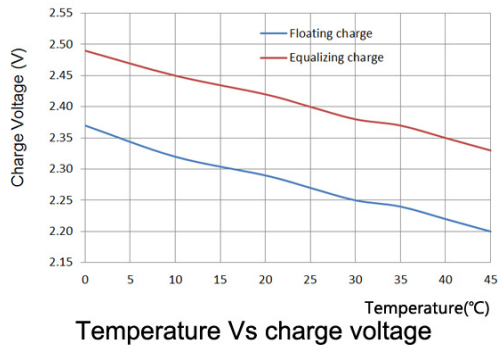
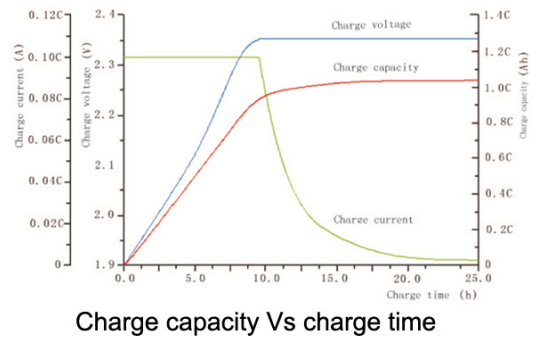
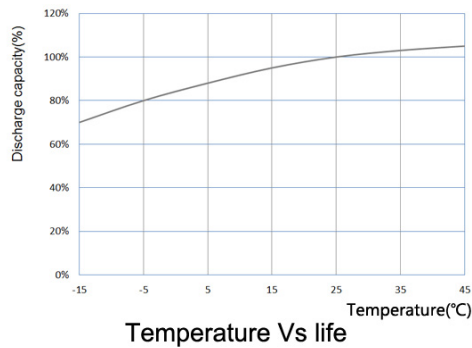
|                                 |                                       |                       |                     |                     |
|---------------------------------|---------------------------------------|-----------------------|---------------------|---------------------|
| Battery Model                   | 6GFM-80                               |                       |                     |                     |
| Designed Life(Years)            | 10                                    |                       |                     |                     |
| Capacity(Ah/25°C)               | 10HR(8A,1.80V/Cell)                   | 5HR(13.7A,1.80V/Cell) | 3HR(20A,1.80V/Cell) | 1HR(44A,1.75V/Cell) |
|                                 | 80                                    | 68.6                  | 60                  | 44                  |
| Dimensions                      | Length(mm)                            | Width(mm)             | Height(mm)          | Total Height(mm)    |
|                                 | 261                                   | 171                   | 209                 | 217                 |
| Approx.Weight(Kg)               | 24.4                                  |                       |                     |                     |
| Internal Resistance(mΩ)         | 5.1                                   |                       |                     |                     |
| Max. Discharge Current(A/5Sec.) | 640                                   |                       |                     |                     |
| Self Discharge(25°C)            | <=2% per month                        |                       |                     |                     |
| Charge Voltage(V/Cell/25°C)     | Cycle use                             |                       | Float use           |                     |
|                                 | 2.4(-3.5mV/°C),max charge current:12A |                       | 2.27(-3.5mV/°C)     |                     |

## Discharge Data

| Constant current discharge data(25°C,A) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Endvoltage (V/cell)                     | 5min  | 10min | 15min | 20min | 30min | 40min | 50min | 1h    | 1.5h  | 2h    | 3h    | 4h    | 5h    | 6h    | 8h    | 10h   |
| 1.60                                    | 253   | 190.7 | 156.8 | 132.8 | 92.06 | 70.71 | 57.58 | 49.6  | 36.71 | 29.57 | 21.89 | 17.56 | 14.9  | 12.94 | 10.27 | 8.453 |
| 1.65                                    | 235.5 | 180.6 | 149.7 | 127.4 | 89.6  | 68.92 | 56.2  | 48.12 | 35.74 | 28.85 | 21.33 | 17.21 | 14.58 | 12.73 | 10.1  | 8.344 |
| 1.70                                    | 223.8 | 171.5 | 140.6 | 121.2 | 86.8  | 66.92 | 54.23 | 46.17 | 34.88 | 28.16 | 20.87 | 16.83 | 14.26 | 12.45 | 9.955 | 8.235 |
| 1.75                                    | 208   | 161.4 | 133   | 113.9 | 82.82 | 64.31 | 52.13 | 44    | 33.88 | 27.64 | 20.38 | 16.52 | 14    | 12.23 | 9.782 | 8.114 |
| 1.80                                    | 197.2 | 151.8 | 126.7 | 108.8 | 79.24 | 61.42 | 50.1  | 42.4  | 33.15 | 27.09 | 20    | 16.25 | 13.72 | 12    | 9.654 | 8     |

| Constant power discharge data(25°C,W/Cell) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Endvoltage (V/cell)                        | 5min  | 10min | 15min | 20min | 30min | 40min | 50min | 1h    | 1.5h  | 2h    | 3h    | 4h    | 5h    | 6h    | 8h    | 10h   |
| 1.60                                       | 435.1 | 331.7 | 275.9 | 238.7 | 165   | 129.3 | 105   | 91.17 | 71.75 | 59.59 | 45.71 | 35.55 | 29.9  | 26.17 | 21.21 | 17.26 |
| 1.65                                       | 403.3 | 316.2 | 265.7 | 229.3 | 157.5 | 125.3 | 102.1 | 89.11 | 70.05 | 58.51 | 44.85 | 35.02 | 29.41 | 25.75 | 20.88 | 16.97 |
| 1.70                                       | 385.5 | 300   | 252.7 | 219.7 | 150.6 | 121.3 | 99.3  | 86.94 | 68.35 | 57.39 | 43.99 | 34.48 | 29.02 | 25.41 | 20.61 | 16.72 |
| 1.75                                       | 368.2 | 285   | 241.1 | 208.1 | 143.1 | 116.7 | 96.64 | 85.24 | 66.99 | 56.46 | 43.12 | 33.89 | 28.54 | 25.08 | 20.3  | 16.46 |
| 1.80                                       | 349.2 | 272.2 | 232.9 | 201   | 135.9 | 112.3 | 93.22 | 83.75 | 65.31 | 55.25 | 42.48 | 33.23 | 28.03 | 24.71 | 19.99 | 16.2  |

## Performance Curve



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