

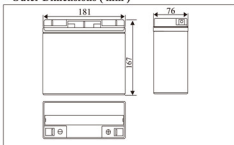
## 6FM 20 (12V20AH)

### • Specifications

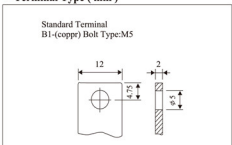
|                         |                  |                            |
|-------------------------|------------------|----------------------------|
| Nominal Voltage         |                  | 12V                        |
| Nominal Capacity (20HR) |                  | 20AH                       |
| Dimension               | Length           | 181±1mm ( 7.13 inches )    |
|                         | Width            | 76±1mm ( 2.99 inches )     |
|                         | Container Height | 167±2mm ( 6.57 inches )    |
|                         | Total Height     | 167±2mm ( 6.57 inches )    |
| Weight                  |                  | Approx 6.00Kg ( 13.2 lbs ) |
| Standard Terminal       |                  | F1-Fasten Tab No.187       |



### • Outer Dimensions ( mm )



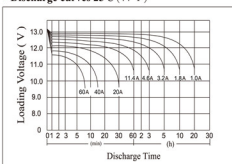
### • Terminal Type ( mm )



### • Characteristics

|                                  |                     |   |
|----------------------------------|---------------------|---|
| Capacity                         | 20 hour rate (1.0A) | 20.0Ah  |
|                                  | 10 hour rate (1.8A) | 18.1Ah  |
|                                  | 5 hour rate (3.2A)  | 16.2Ah  |
|                                  | 1 hour rate (11.4A) | 10.8Ah  |
| Capacity affected by temperature | 40 °C (104°F)       | 105%  |
|                                  | 25 °C (77°F)        | 100%  |
|                                  | 0 °C (32°F)         | 85%   |
| Internal Resistance              |                     | Fully charged battery (25°C, 77°F) 15mΩ   |
| Constant-Voltage Charge          | Cycle               | Initial Charging Current less than 5.4A<br>Voltage 14.4-15.0V at 25°C (77°F)<br>Temperature Coefficient -30mV/C |
|                                  | Stand by            | No limit on Initial Charging Current<br>Voltage 13.5-13.8V at 25°C (77°F)<br>Temperature Coefficient -20mV/C    |

### • Discharge curves 25°C (77°F)



### Constant Current ( Amp ) and constant power ( Watt ) Discharge Table at 25°C ( 77°F )

| Time  |   | 5min  | 10min | 15min | 30min | 1h    | 2h    | 3h    | 4h    | 5h    | 8h    | 10h   | 20h   |
|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V | A | 80.00 | 54.00 | 380.0 | 23.00 | 12.00 | 7.00  | 5.15  | 4.13  | 3.51  | 2.32  | 1.89  | 1.03  |
|       | W | 849.2 | 573.3 | 403.3 | 344.2 | 138.3 | 81.00 | 59.58 | 47.83 | 40.58 | 26.75 | 21.92 | 12.00 |
| 1.70V | A | 72.00 | 49.17 | 34.17 | 21.83 | 11.27 | 6.72  | 5.00  | 4.00  | 3.44  | 2.28  | 1.86  | 1.01  |
|       | W | 799.2 | 545.0 | 379.2 | 242.5 | 130.0 | 77.80 | 57.92 | 46.33 | 39.83 | 26.33 | 21.50 | 11.67 |
| 1.75V | A | 68.08 | 46.80 | 32.00 | 21.17 | 10.90 | 6.58  | 4.92  | 3.80  | 3.40  | 2.25  | 1.84  | 1.00  |
|       | W | 771.7 | 530.0 | 362.5 | 240.0 | 126.2 | 76.30 | 56.92 | 44.00 | 39.58 | 26.08 | 21.33 | 11.58 |
| 1.80V | A | 63.33 | 44.33 | 30.00 | 20.58 | 10.53 | 6.42  | 4.83  | 3.73  | 3.25  | 2.19  | 1.79  | 0.98  |
|       | W | 736.7 | 515.0 | 349.2 | 239.2 | 122.5 | 74.70 | 56.25 | 43.46 | 37.83 | 25.00 | 20.83 | 11.33 |
| 1.85  | A | 60.00 | 42.00 | 28.00 | 20.00 | 10.17 | 6.25  | 4.58  | 3.67  | 3.11  | 2.13  | 1.75  | 0.95  |
|       | W | 714.2 | 449.2 | 332.5 | 237.5 | 120.8 | 74.20 | 54.58 | 43.33 | 37.00 | 24.17 | 20.42 | 11.25 |