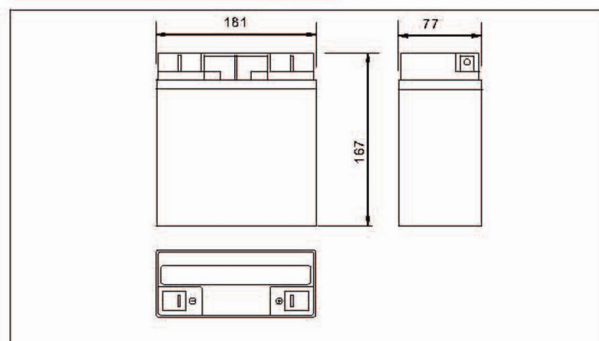


## FP12180(12V18AH)



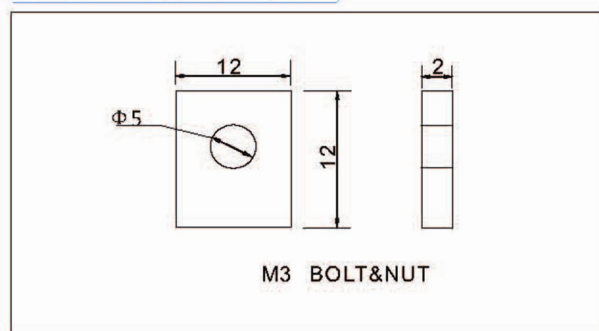
### Outer dimensions (mm)



### Specifications

|                               |              |                      |
|-------------------------------|--------------|----------------------|
| Nominal Voltage               |              | 12V                  |
| Rated capacity (20 hour rate) |              | 18Ah                 |
| Dimensions                    | Total Height | 167 mm (6.57 inches) |
|                               | Height       | 167 mm (6.57 inches) |
|                               | Length       | 181 mm (7.13 inches) |
|                               | Width        | 77 mm (3.03 inches)  |
| Weight Approx                 |              | 4.80Kg (10.56lbs)    |

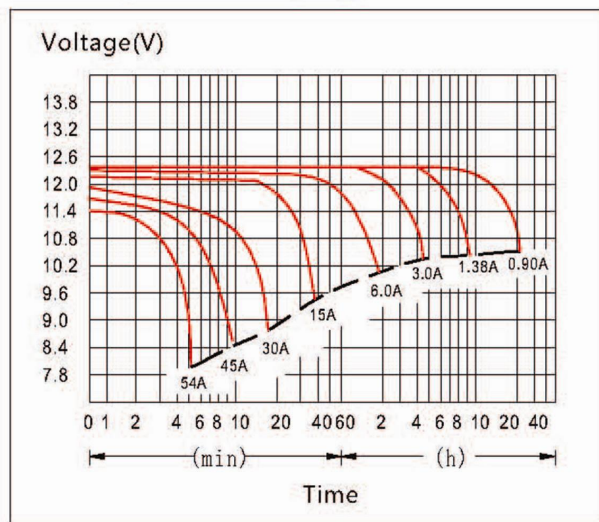
### Terminal Type (mm)



### Characteristics

|                                                         |                                 |                                                                             |
|---------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------|
| Capacity<br>25°C(77°F)                                  | 20 hour rate(0.90A)             | 18.0AH                                                                      |
|                                                         | 10 hour rate(1.38A)             | 13.8AH                                                                      |
|                                                         | 5 hour rate(2.50A)              | 12.5AH                                                                      |
|                                                         | 1 hour rate(9.00A)              | 9.0AH                                                                       |
|                                                         | 1.5 hour discharge to 10.5V     | 6.0A                                                                        |
| Internal Resistance Full charged Battery at 25°C(77°F)  |                                 | 17mΩ                                                                        |
| Capacity<br>affected<br>by Temperature<br>(20hour rate) | 40°C(104°F)                     | 102%                                                                        |
|                                                         | 25°C(77°F)                      | 100%                                                                        |
|                                                         | 0°C(32°F)                       | 85%                                                                         |
|                                                         | -15°C(5°F)                      | 65%                                                                         |
| Self-Discharge<br>at 25°C(77°F)                         | Capacity after 3 month storage  | 91%                                                                         |
|                                                         | Capacity after 6 month storage  | 82%                                                                         |
|                                                         | Capacity after 12 month storage | 64%                                                                         |
| Terminal                                                |                                 | T3                                                                          |
| Charge<br>(constant<br>Voltage)                         | Cycle                           | Initial Charging Current less than 6.0A<br>Voltage 14.40-15.00V Time 14~16h |
|                                                         | Float                           | Voltage 13.50-13.80V                                                        |

### 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  |
|--------|--------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 9.60V  | A 54.0 | 35.4  | 26.3  | 17.3  | 9.0  | 5.25 | 3.86 | 3.10 | 2.63 | 1.74 | 1.42 | 0.78 |
|        | W 561  | 380   | 281   | 185   | 97   | 57.6 | 43.0 | 34.9 | 29.9 | 19.9 | 16.4 | 9.0  |
| 10.20V | A 49.5 | 33.9  | 24.1  | 16.4  | 8.45 | 5.04 | 3.75 | 3.00 | 2.58 | 1.71 | 1.39 | 0.76 |
|        | W 532  | 379   | 270   | 184   | 96   | 58.1 | 43.4 | 34.9 | 30.1 | 20.0 | 16.4 | 8.9  |
| 10.50V | A 45.1 | 31.7  | 22.5  | 15.9  | 8.18 | 4.94 | 3.69 | 2.85 | 2.55 | 1.69 | 1.38 | 0.75 |
|        | W 495  | 360   | 257   | 183   | 95   | 57.3 | 43.0 | 33.3 | 29.9 | 19.8 | 16.3 | 8.9  |
| 10.80V | A 43.3 | 30.3  | 21.0  | 15.4  | 7.90 | 4.81 | 3.63 | 2.80 | 2.44 | 1.64 | 1.34 | 0.73 |
|        | W 486  | 349   | 242   | 179   | 92   | 56.4 | 42.7 | 33.1 | 28.8 | 19.5 | 16.0 | 8.71 |
| 11.10V | A 40.1 | 28.5  | 19.5  | 15.0  | 7.62 | 4.69 | 3.44 | 2.75 | 2.33 | 1.60 | 1.31 | 0.71 |
|        | W 454  | 330   | 227   | 176   | 90   | 55.4 | 40.8 | 32.8 | 27.8 | 19.2 | 15.8 | 8.64 |

NOTE: FOR REFERENCE ONLY

