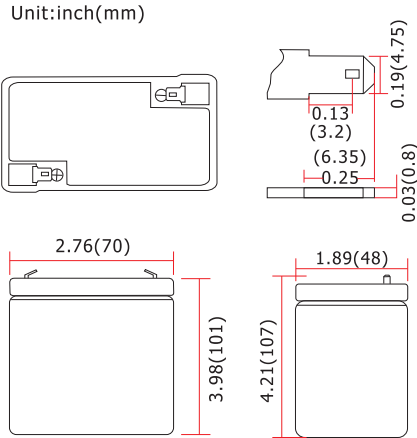
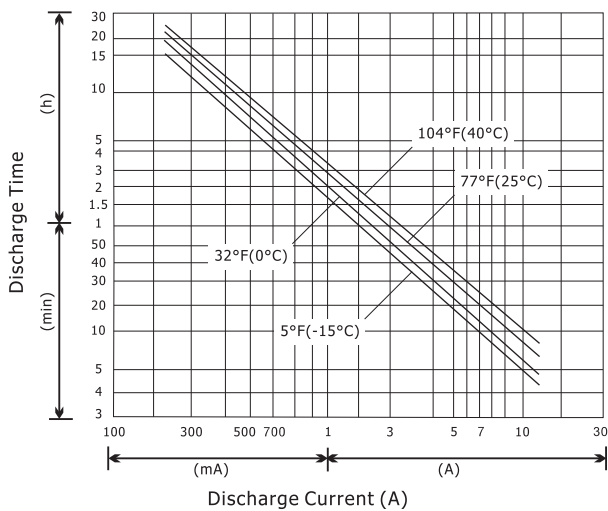


## FB4.5-6

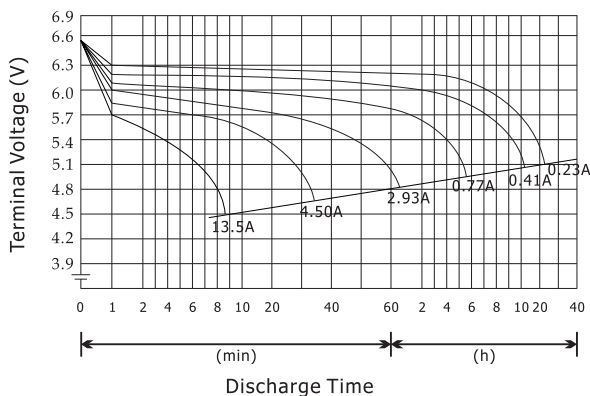
6V4.5Ah Lead Acid Battery



### ■ Discharge Current and Discharge Duration Time



Discharge Curves 77°F(25°C)



### ■ Specification

|  |  |                       |
|--|--|-----------------------|
| Nominal Voltage                                    | 6V                                       |                       |
| Rated Capacity (20hr Rate)                         | 4.5Ah                                    |                       |
| Dimensions   | Length                                   | 2.76inches (70mm)     |
|  | Width                                    | 1.89inches (48mm)     |
|  | Height                                   | 3.98inches (101mm)    |
|  | Total Height                             | 4.21inches (107mm)    |
| Weight   | Approx. 1.61lbs (0.73kg)                 |                       |
| <b>■ Characteristics</b>                           |  |                       |
| Capacity<br>77°F(25°C)                             | 20hour rate (0.23A)                      | 4.50Ah                |
|  | 10hour rate (0.41A)                      | 4.10Ah                |
|  | 5hour rate (0.77A)                       | 3.85Ah                |
|  | 1hour rate (2.93A)                       | 2.93Ah                |
| Internal Resistance                                | Full Charged, 77°F(25°C)                 | 30mΩ                  |
| Capacity Affected<br>By Temperature<br>(10hr Rate) | 104°F(40°C)                              | 102%                  |
|  | 77°F(25°C)                               | 100%                  |
|  | 32°F(0°C)                                | 85%                   |
|  | 5°F(-15°C)                               | 65%                   |
| Self-Discharge<br>77°F(25°C)                       | Capacity after 3 month storage           | 90%                   |
|  | Capacity after 6 month storage           | 80%                   |
|  | Capacity after 9 month storage           | 60%                   |
| Charge<br>(Constant Voltage)                       | Initial Charge Current "LESS" than 1.35A |                       |
|  | Cycle                                    | 7.20-7.50V/77°F(25°C) |
|  | Stand By                                 | 6.75-6.90V/77°F(25°C) |

\*\*These data are average values obtained from three Charge/Discharge cycles. Note: These are NOT minimum values.

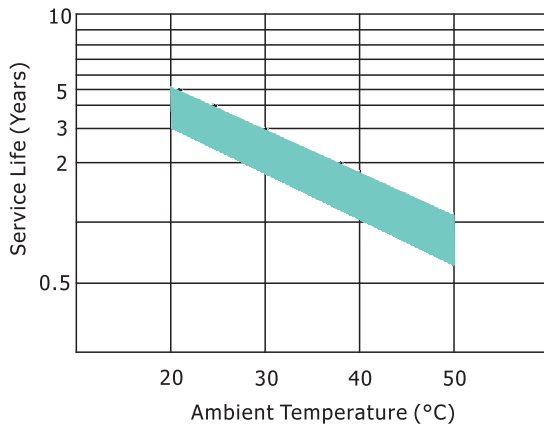
## Constant Current Discharge Characteristics Unit: A (25°C / 77°F)

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|------|------|------|------|------|------|------|
| 4.8V     | 16.7 | 11.5  | 8.60  | 5.30  | 3.20 | 1.78 | 1.30 | 0.83 | 0.55 | 0.45 | 0.24 |
| 5V       | 15.5 | 10.8  | 8.20  | 5.10  | 3.10 | 1.74 | 1.28 | 0.82 | 0.54 | 0.44 | 0.24 |
| 5.1V     | 14.9 | 10.5  | 8.00  | 5.00  | 3.00 | 1.72 | 1.26 | 0.81 | 0.54 | 0.44 | 0.23 |
| 5.2V     | 13.6 | 9.90  | 7.70  | 4.80  | 3.00 | 1.69 | 1.24 | 0.80 | 0.53 | 0.43 | 0.23 |
| 5.4V     | 12.3 | 9.20  | 7.20  | 4.60  | 2.90 | 1.65 | 1.22 | 0.78 | 0.51 | 0.42 | 0.22 |
| 5.6V     | 10.8 | 8.20  | 6.60  | 4.50  | 2.80 | 1.62 | 1.17 | 0.77 | 0.50 | 0.42 | 0.21 |

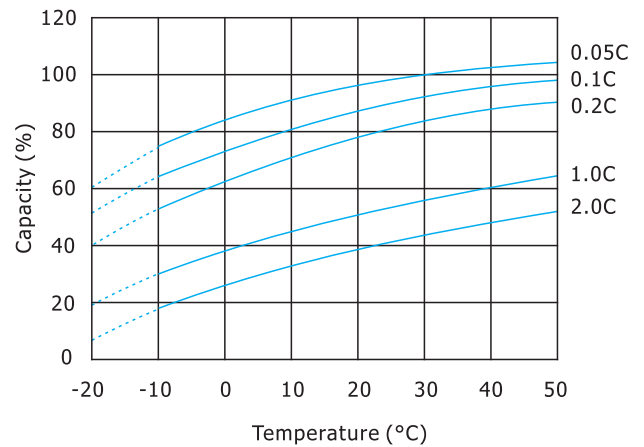
## Constant Power Discharge Characteristics Unit: W (25°C / 77°F)

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|------|------|------|------|------|------|------|
| 4.8V     | 90.0 | 63.5  | 50.0  | 30.6  | 17.8 | 10.1 | 7.40 | 4.80 | 3.15 | 2.55 | 1.35 |
| 5V       | 83.0 | 59.5  | 47.0  | 29.7  | 17.5 | 10.0 | 7.20 | 4.75 | 3.10 | 2.50 | 1.35 |
| 5.1V     | 79.0 | 58.0  | 45.6  | 29.2  | 17.3 | 9.85 | 7.10 | 4.65 | 3.05 | 2.50 | 1.30 |
| 5.2V     | 72.5 | 54.0  | 43.2  | 28.3  | 16.9 | 9.65 | 7.00 | 4.55 | 3.00 | 2.45 | 1.30 |
| 5.4V     | 65.5 | 50.0  | 40.5  | 27.2  | 16.5 | 9.45 | 6.80 | 4.45 | 2.95 | 2.40 | 1.25 |
| 5.6V     | 58.5 | 45.3  | 37.9  | 25.9  | 16.0 | 9.20 | 6.60 | 4.30 | 2.85 | 2.30 | 1.25 |

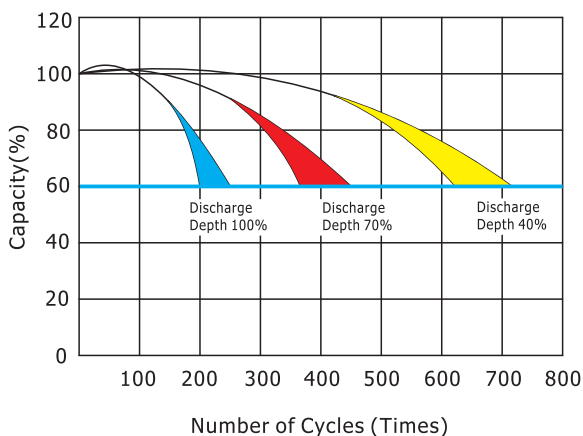
### Trickle / Float Service Life



### Effect of Temperature on Capacity



### Cycle Service Life (@25°C/77°F)



### Capacity Retention Characteristic

