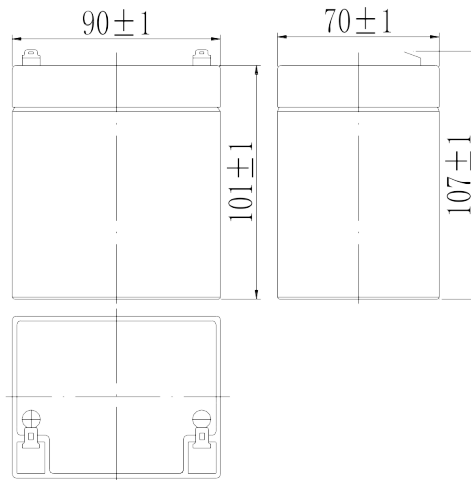


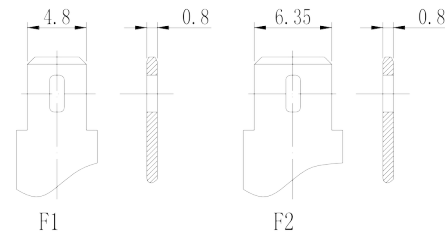
**BW 1250(12V5Ah)**  
SPECIFICATIONS

|   |  |                         |
|---|--|-------------------------|
| Nominal Voltage                           |  | 12 V                    |
| Capacity (25°C)                           | 20HR   | 5Ah                     |
|   | 10HR   | 3.7Ah                   |
|   | 1HR  | 2.6Ah                   |
| Dimension                                 | Length   | 90±1mm (3.54inch)       |
|   | Width  | 70±1mm (2.76inch)       |
|   | Height   | 101±1mm (3.98inch)      |
|   | Total Height   | 107±1mm (4.21inch)      |
| Approx. Weight                            |  | 1.36kg (3.0lbs)±5%      |
| Terminal type                             |  | F1 or F2                |
| Internal resistance (Fully charged, 25°C) |  | Approx. 55mΩ            |
| Capacity affected by temperature (20HR)   | 40°C   | 102%                    |
|   | 25°C   | 100%                    |
|   | 0°C  | 85%                     |
|   | -15°C  | 65%                     |
| Self-discharge (25°C)                     | 3 month  | Remaining Capacity: 91% |
|   | 6 month  | Remaining Capacity: 82% |
|   | 12 month   | Remaining Capacity: 65% |
| Nominal operating temperature             |  | 25°C±3°C(77°F±5°F)      |
| Operating temperature range               | Discharge  | -15°C~50°C(5°F~122°F)   |
|   | Charge   | -10°C~50°C(14°F~122°F)  |
|   | Storage  | -20°C~50°C(-4°F~122°F)  |
| Float charging voltage(25°C)              | 13.60 to 13.80V<br>Temperature compensation:<br>-18mV/°C |                         |
| Cyclic charging voltage(25°C)             | 14.50 to 15.00V<br>Temperature compensation:<br>-30mV/°C |                         |
| Maximum charging current                  | 1.2A   |                         |
| Maximum discharge current                 | 60 A(5 sec.)   |                         |
| Designed floating life(20°C)              | 5 years  |                         |

**DIMENSIONS**



**TERMINAL**



**CONSTRUCTION**

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

**CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A, 25°C)**

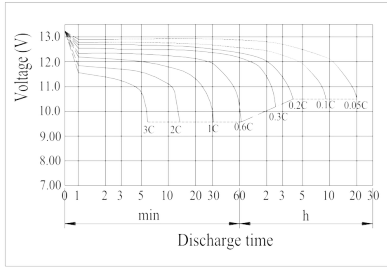
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h   | 3h   | 4h   | 5h   | 10h  | 20h  |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V    | 15.3 | 9.68  | 7.56  | 4.26  | 2.62  | 1.43 | 0.99 | 0.82 | 0.70 | 0.38 | 0.20 |
| 9.90V    | 14.8 | 9.39  | 7.38  | 4.17  | 2.58  | 1.42 | 0.99 | 0.82 | 0.69 | 0.38 | 0.20 |
| 10.2V    | 14.2 | 9.00  | 7.11  | 4.05  | 2.52  | 1.41 | 0.98 | 0.81 | 0.69 | 0.38 | 0.20 |
| 10.5V    | 13.6 | 8.62  | 6.86  | 3.95  | 2.47  | 1.39 | 0.97 | 0.80 | 0.68 | 0.37 | 0.20 |
| 10.8V    | 12.8 | 8.13  | 6.50  | 3.80  | 2.39  | 1.36 | 0.94 | 0.78 | 0.66 | 0.37 | 0.20 |

**CONSTANT POWER DISCHARGE CHARACTERISTICS (WATT, 25°C)**

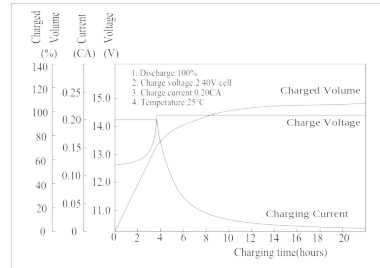
| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h   | 3h   | 4h   | 5h   | 10h  | 20h  |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V    | 171  | 109   | 86.2  | 48.8  | 30.3  | 16.8 | 11.8 | 9.77 | 8.33 | 4.55 | 2.44 |
| 9.90V    | 165  | 106   | 84.1  | 47.8  | 29.9  | 16.7 | 11.7 | 9.71 | 8.28 | 4.53 | 2.43 |
| 10.2V    | 159  | 102   | 81.0  | 46.4  | 29.1  | 16.5 | 11.6 | 9.64 | 8.22 | 4.51 | 2.41 |
| 10.5V    | 152  | 97.2  | 78.3  | 45.3  | 28.5  | 16.3 | 11.5 | 9.58 | 8.17 | 4.48 | 2.40 |
| 10.8V    | 143  | 91.7  | 74.1  | 43.6  | 27.7  | 15.9 | 11.2 | 9.29 | 7.92 | 4.39 | 2.35 |

Note: The above characteristics data can be obtained within three charge/discharge cycles.

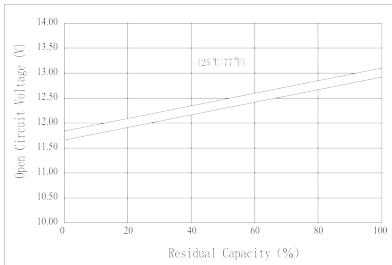
**Discharge Characteristics (25°C)**



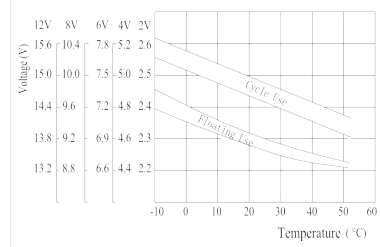
**Charging Characteristics (25°C)**



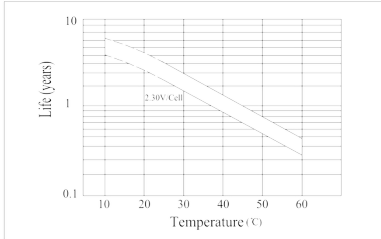
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



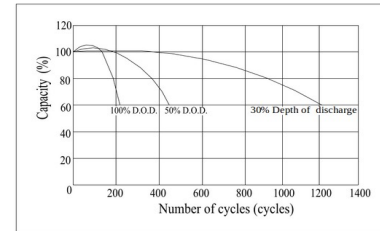
**The Relationship for Charging Voltage and Temperature**



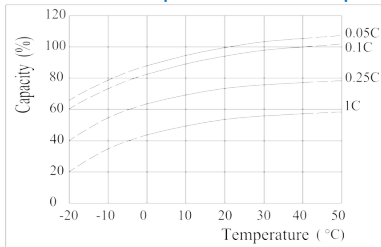
**Floating Life on Temperature**



**Cycle Life on D.O.D (25°C)**



**Effect of Temperature on Capacity**



**Self-discharge Characteristics**

