

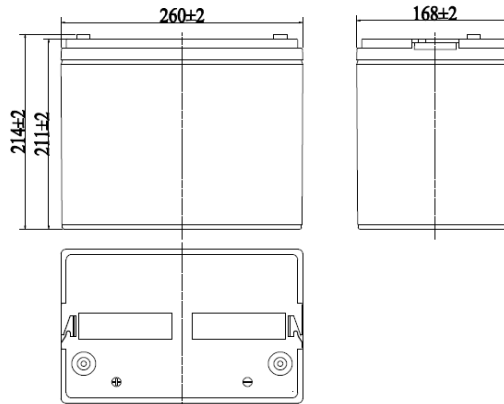
## BW 12750 DC (12V75Ah)

### SPECIFICATIONS

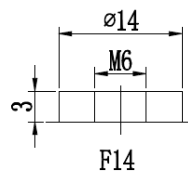
|   |              |   |
|---|--------------|---|
| Nominal Voltage                           |              | 12 V  |
| Capacity (25°C)                           | 20HR         | 75 Ah   |
|   | 5HR          | 65 Ah   |
|   | 1HR          | 46 Ah   |
| Dimension                                 | Length       | 260mm ± 2 (10.24inch)                                 |
|   | Width        | 168mm ± 2 (6.61inch)                                  |
|   | Height       | 211mm ± 2 (8.31inch)                                  |
|   | Total Height | 214 ± 2mm (8.43inch)                                  |
| Approx. Weight                            |              | 22.5kg (49.6lbs) ± 4%                                 |
| Terminal type                             |              | Z (Pic) or M6   |
| Internal resistance (Fully charged, 25°C) |              | Approx. 6m Ω  |
| Capacity affected by temperature (10HR)   | 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)              |              | 13.50 to 13.80V<br>Temperature compensation: -18mV/°C |
| Cyclic charging voltage(25°C)             |              | 14.50 to 15.00V<br>Temperature compensation: -30mV/°C |
| Maximum charging current                  |              | 22.5A   |
| Maximum discharge current                 |              | 750 A(5 sec.)   |
| Designed floating life(20°C)              |              | 10 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)

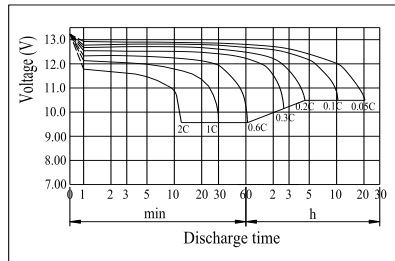
| F.V/TIME | 10min | 15min | 30min | 60min | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V    | 164   | 126   | 75.4  | 46.4  | 27.4 | 19.5 | 15.8 | 13.5 | 9.26 | 7.64 | 4.05 |
| 9.90V    | 159   | 123   | 73.9  | 45.7  | 27.2 | 19.4 | 15.7 | 13.4 | 9.20 | 7.62 | 4.04 |
| 10.2V    | 152   | 118   | 71.6  | 44.5  | 27.0 | 19.3 | 15.6 | 13.3 | 9.14 | 7.60 | 4.03 |
| 10.5V    | 146   | 114   | 69.9  | 43.6  | 26.6 | 19.1 | 15.5 | 13.2 | 9.08 | 7.55 | 4.00 |
| 10.8V    | 137   | 108   | 67.3  | 42.2  | 25.9 | 18.6 | 15.0 | 12.8 | 8.80 | 7.50 | 3.98 |

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

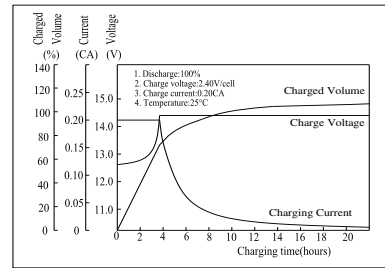
| F.V/TIME | 10min | 15min | 30min | 60min | 2h  | 3h  | 4h  | 5h  | 8h  | 10h  | 20h  |
|----------|-------|-------|-------|-------|-----|-----|-----|-----|-----|------|------|
| 9.60V    | 1766  | 1383  | 846   | 528   | 317 | 229 | 185 | 159 | 110 | 91.2 | 48.6 |
| 9.90V    | 1713  | 1350  | 829   | 520   | 315 | 228 | 184 | 158 | 109 | 91.0 | 48.5 |
| 10.2V    | 1642  | 1300  | 803   | 507   | 313 | 226 | 183 | 157 | 109 | 90.7 | 48.3 |
| 10.5V    | 1572  | 1256  | 784   | 497   | 308 | 225 | 182 | 156 | 108 | 90.2 | 48.0 |
| 10.8V    | 1483  | 1190  | 755   | 481   | 300 | 218 | 176 | 151 | 105 | 89.6 | 47.7 |

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

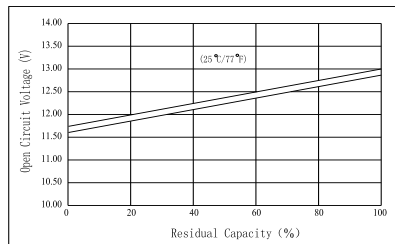
**Discharge Characteristics (25°C)**



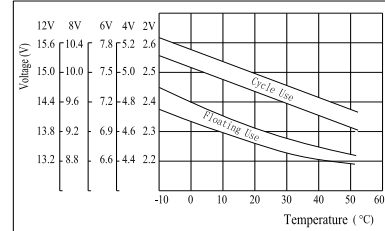
**Charging Characteristics (25°C)**



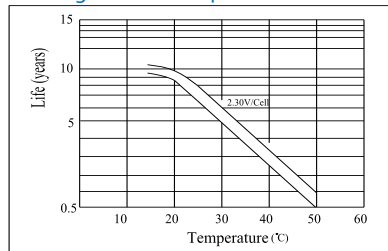
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



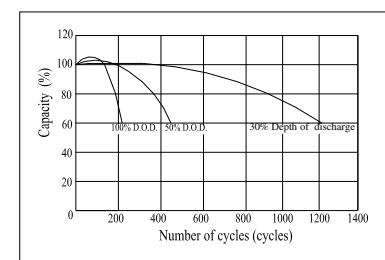
**The Relationship for Charging Voltage and Temperature**



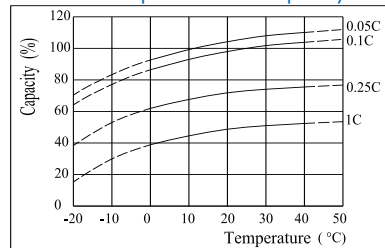
**Floating Life on Temperature**



**Cycle Life on D.O.D (25°C)**



**Effect of Temperature on Capacity**



**Self-discharge Characteristics**

