

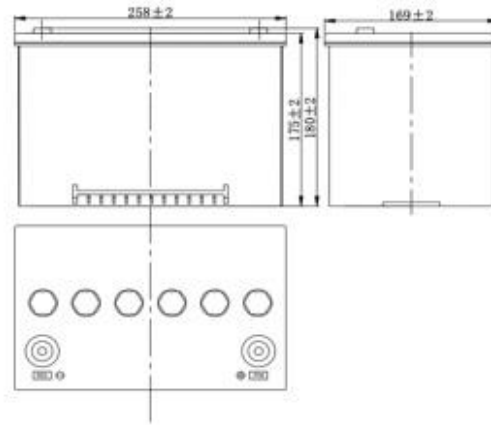
BW EV34 DC (12V65Ah)

SPECIFICATIONS

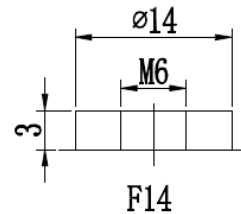
| | | |
|---|---|-----------------------------|
| Nominal Voltage | | 12 V |
| Capacity (25°C) | 20HR | 65 Ah |
| | 2HR | 50.5 Ah |
| Dimension | Length | 258 ± 2mm (10.16inch) |
| | Width | 169 ± 2mm (6.65inch) |
| | Height | 175 ± 2mm (6.89inch) |
| | Total Height | 180 ± 2mm (7.08inch) |
| Approx. Weight | | 19kg (41.80lbs) ± 4% |
| Terminal type | | 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) | 13.60 to 13.80V Temperature compensation: -18mV/°C | |
| Cyclic charging voltage(25°C) | 14.50 to 15.00V Temperature compensation: -30mV/°C | |
| Maximum charging current | 19.5A | |
| Maximum discharge current | 650 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)

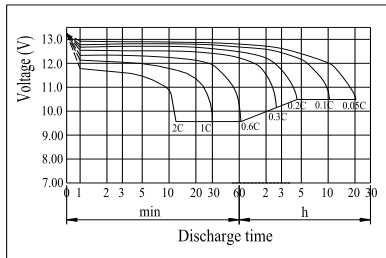
| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V | 142 | 109 | 65.3 | 40.2 | 23.8 | 16.9 | 13.7 | 11.7 | 8.02 | 6.62 | 3.51 |
| 9.90V | 137 | 107 | 64.0 | 39.6 | 23.6 | 16.8 | 13.6 | 11.6 | 7.98 | 6.60 | 3.50 |
| 10.2V | 132 | 103 | 62.1 | 38.6 | 23.4 | 16.7 | 13.5 | 11.5 | 7.92 | 6.58 | 3.49 |
| 10.5V | 126 | 99.2 | 60.6 | 37.8 | 23.0 | 16.6 | 13.4 | 11.4 | 7.87 | 6.55 | 3.47 |
| 10.8V | 119 | 93.9 | 58.3 | 36.6 | 22.5 | 16.1 | 13.0 | 11.1 | 7.63 | 6.50 | 3.45 |

CONSTANT POWER DISCHARGE CHARACTERISTICS (WATT, 25°C)

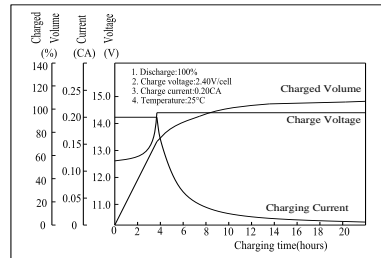
| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-----|-----|-----|-----|------|------|------|
| 9.60V | 1530 | 1199 | 733 | 458 | 275 | 199 | 161 | 138 | 95.3 | 79.0 | 42.1 |
| 9.90V | 1484 | 1170 | 718 | 451 | 273 | 198 | 160 | 137 | 94.7 | 78.9 | 42.0 |
| 10.2V | 1423 | 1127 | 696 | 440 | 271 | 196 | 159 | 136 | 94.1 | 78.6 | 41.9 |
| 10.5V | 1362 | 1089 | 679 | 430 | 267 | 195 | 157 | 135 | 93.4 | 78.2 | 41.6 |
| 10.8V | 1286 | 1031 | 655 | 417 | 260 | 189 | 153 | 131 | 90.6 | 77.6 | 41.3 |

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

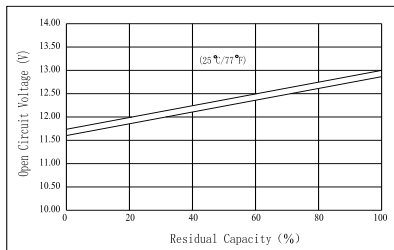
Discharge Characteristics (25°C)



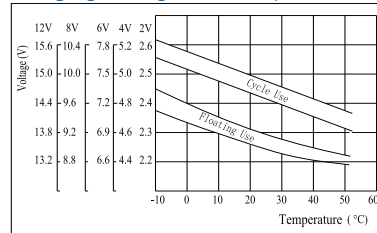
Charging Characteristics (25°C)



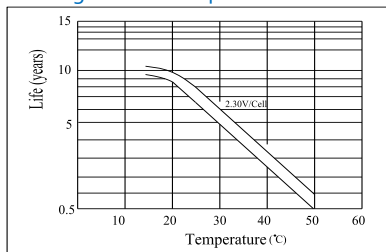
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



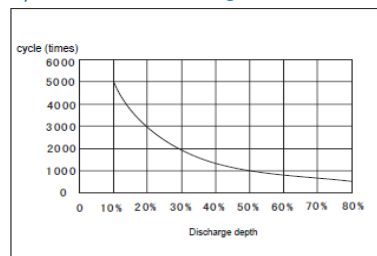
The Relationship for Charging Voltage and Temperature



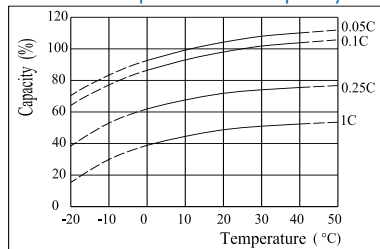
Floating Life on Temperature



Cycle Life on D.O.D (25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

