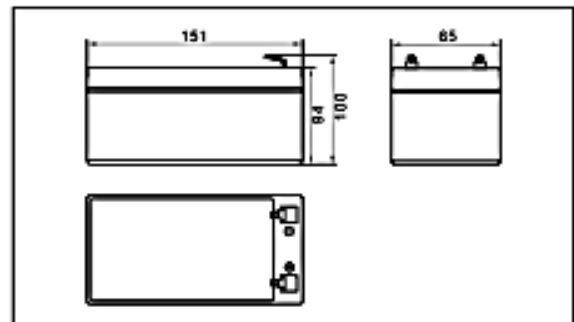


BT-12-8.5 (12V 8.5AH)

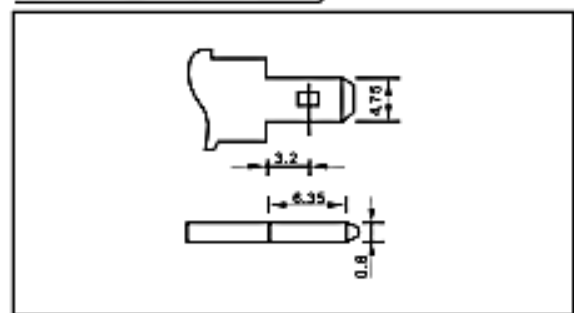


● Outer dimensions (mm)



| | | |
|-------------------------------|--------------|---------------------|
| Nominal Voltage | | 12V |
| Rated capacity (20 hour rate) | | 8.50 Ah |
| Dimensions | Total Height | 100mm (3.94 inches) |
| | Height | 94mm (3.70 inches) |
| | Length | 151mm (5.94 inches) |
| | Width | 65mm (2.58 inches) |
| Weight Approx | | 2.6Kg (5.73lbs) |

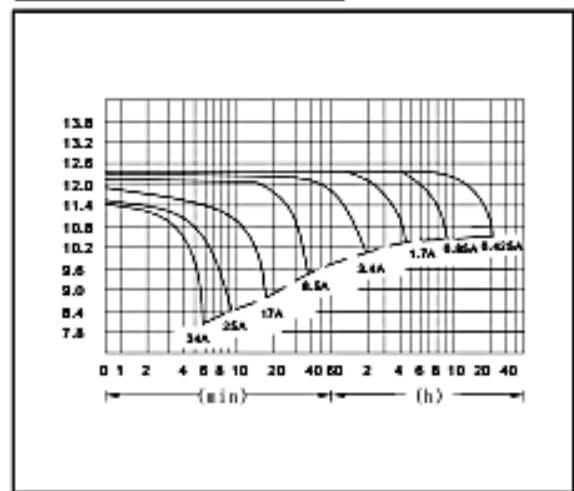
● Terminal Type (mm)



● Characteristics

| | | |
|---|------------------------------------|--|
| Capacity 25°C(77°F) | 20 hour rate(0.45 A) | 8.50 AH |
| | 10 hour rate(0.83 A) | 7.70 AH |
| | 5 hour rate(1.53A) | 7.15 AH |
| | 1 hour rate(5.40A) | 5.10 AH |
| | 1.5 hour discharge to 10.5V | 3.4 A |
| Internal Resistance | Full charged Battery at 25°C(77°F) | 18 mΩ |
| Capacity affected by Temperature (20hour rate) | 40°C(104°F) | 102% |
| | 25°C(77°F) | 100% |
| | 0°C(32°F) | 85% |
| | -15°C(5°F) | 65% |
| Self-Discharge at 25°C(77°F) | Capacity after 3 month storage | 91% |
| | Capacity after 6 month storage | 82% |
| | Capacity after 12 month storage | 64% |
| Terminal | T1, T2 | |
| Charge (constant Voltage) | Cycle | Initial Charging Current less than 3.40A Voltage 14.10-14.40V |
| | 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 | 34.00 | 22.95 | 16.05 | 9.80 | 5.10 | 2.97 | 2.19 | 1.76 | 1.49 | 0.98 | 0.77 | 0.44 |
| | W | 360.5 | 243.0 | 171.4 | 102.8 | 58.8 | 34.5 | 25.31 | 20.33 | 17.27 | 11.32 | 9.46 | 5.10 |
| 10.20V | A | 30.60 | 20.89 | 14.46 | 9.28 | 4.79 | 2.85 | 2.12 | 1.70 | 1.45 | 0.95 | 0.79 | 0.43 |
| | W | 339.4 | 231.5 | 160.5 | 103.0 | 55.3 | 33.0 | 24.56 | 19.65 | 16.91 | 11.20 | 9.16 | 5.00 |
| 10.50V | A | 28.93 | 19.89 | 13.60 | 9.00 | 4.63 | 2.79 | 2.09 | 1.61 | 1.44 | 0.95 | 0.78 | 0.42 |
| | W | 327.2 | 225.6 | 154.0 | 102.0 | 53.7 | 32.5 | 24.01 | 18.70 | 16.81 | 11.04 | 9.10 | 4.91 |
| 10.80V | A | 26.91 | 18.85 | 12.75 | 8.74 | 4.48 | 2.72 | 2.05 | 1.58 | 1.38 | 0.93 | 0.78 | 0.41 |
| | W | 312.8 | 218.9 | 151.1 | 106.5 | 52.0 | 31.8 | 23.90 | 18.46 | 16.07 | 10.62 | 8.83 | 4.73 |
| 11.10V | A | 25.50 | 17.85 | 11.90 | 8.50 | 4.32 | 2.65 | 1.94 | 1.54 | 1.32 | 0.90 | 0.74 | 0.39 |
| | W | 303.5 | 212.1 | 141.5 | 100.8 | 51.9 | 31.5 | 23.15 | 18.38 | 15.75 | 10.27 | 9.58 | 4.70 |