

Parameter Chart:

| Volts |  | 12 V |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Capacity ( $25^{\circ} \mathrm{C}$ ) |  | 20 hours rate (1A) |  | 20Ah |
| Discharge Current Testing $\left(25^{\circ} \mathrm{C}\right)$ |  | $20 \mathrm{I}_{20}$ rate (20A, 27min) |  | 35 min |
|  |  | $60 \mathrm{I}_{20}$ rate (60A, 7 min ) |  | 7 min |
| Internal Resistance |  | Full Charged Battery $25^{\circ} \mathrm{C}$ |  | 12.5 ms |
| Capacity Affected By Temperature |  | $40^{\circ} \mathrm{C}$ |  | 104\% |
|  |  | $25^{\circ} \mathrm{C}$ |  | 100\% |
|  |  | $0^{\circ} \mathrm{C}$ |  | 83\% |
|  |  | $-15^{\circ} \mathrm{C}$ |  | 65\% |
| Residual Capacity$\left(25^{\circ} \mathrm{C}\right)$ |  | Capacity After 3 Months Storage |  | 91\% |
|  |  | Capacity After 6 Months Storage |  | 82\% |
|  |  | Capacity After 12 Months Storage |  | 65\% |
| Charge (Constant Voltage) | Cycle ( $25^{\circ} \mathrm{C}$ ) |  | Initial Charging Current Less Than6A Voltage $14.5 \sim 14.9 \mathrm{~V}$ |  |
|  | Float ( $25^{\circ} \mathrm{C}$ ) |  | Charge Voltage 13.6~13.8V |  |
| Weight (Approx) |  |  |  | 5.18 Kg |

$\star$ The above are average and data obtained from the firsr 3 charge/discharge cycles. These are not minimum values.

## Residual Capacity



## Discharge Current $25^{\circ} \mathrm{C}$



## Constant voltage charging characteristics



Float Life


## Constant Current Discharge Characteristics ( $\mathrm{A}, \mathbf{2 5}^{\mathbf{\circ}} \mathbf{C}$ )

| F.V/Time | 5 min | 10 min | 15 min | 30 min | 60 min | 2 h | 3 h | 5 h | 8 h | 10 h | 20 h |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9.60 V | 69.30 | 43.56 | 34.65 | 20.79 | 11.88 | 7.03 | 4.82 | 3.21 | 2.21 | 1.80 | 1.00 |
| 10.2 V | 65.89 | 41.36 | 33.22 | 19.91 | 11.44 | 6.93 | 4.75 | 3.17 | 2.19 | 1.79 | 1.00 |
| 10.5 V | 64.24 | 40.37 | 32.56 | 19.58 | 11.11 | 6.88 | 4.71 | 3.15 | 2.18 | 1.79 | 0.99 |
| 10.8 V | 61.93 | 38.94 | 31.57 | 18.92 | 10.84 | 6.79 | 4.65 | 3.10 | 2.17 | 1.78 | 0.98 |

Constant Current Discharge Characteristics (Watt, $\mathbf{2 5}^{\circ} \mathrm{C}$ )

| F.V/Time | 5 min | 10 min | 15 min | 30 min | 60 min | 2 h | 3 h | 5 h | 8 h | 10 h | 20 h |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9.60 V | 773.30 | 491.70 | 394.90 | 238.70 | 137.50 | 82.17 | 57.31 | 38.39 | 26.51 | 21.67 | 12.10 |
| 10.2 V | 734.80 | 466.40 | 379.50 | 228.80 | 132.00 | 81.07 | 56.43 | 37.84 | 26.29 | 21.56 | 11.99 |
| 10.5 V | 716.10 | 454.30 | 370.70 | 223.30 | 128.70 | 80.41 | 55.88 | 37.51 | 26.07 | 21.21 | 11.88 |
| 10.8 V | 690.80 | 438.90 | 359.70 | 217.80 | 125.40 | 79.31 | 55.33 | 37.07 | 25.86 | 21.03 | 11.81 |

Capacity Factors With Different Temperature

| Battery Type |  | $-20^{\circ} \mathrm{C}$ | $-10^{\circ} \mathrm{C}$ | $0^{\circ} \mathrm{C}$ | $5^{\circ} \mathrm{C}$ | $10^{\circ} \mathrm{C}$ | $20^{\circ} \mathrm{C}$ | $25^{\circ} \mathrm{C}$ | $30^{\circ} \mathrm{C}$ | $40^{\circ} \mathrm{C}$ | $45^{\circ} \mathrm{C}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Battery | 12 V | $50 \%$ | $70 \%$ | $83 \%$ | $85 \%$ | $90 \%$ | $98 \%$ | $100 \%$ | $102 \%$ | $104 \%$ | $105 \%$ |

The above are average and data obtained from the firsr 3 charge/discharge cycles. These are not minimum values.

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