

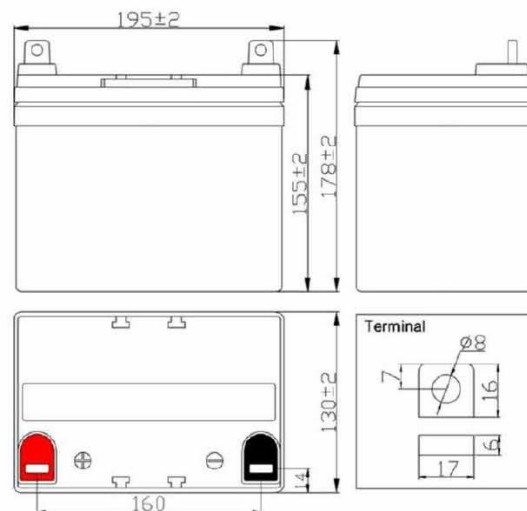


## BA33-2

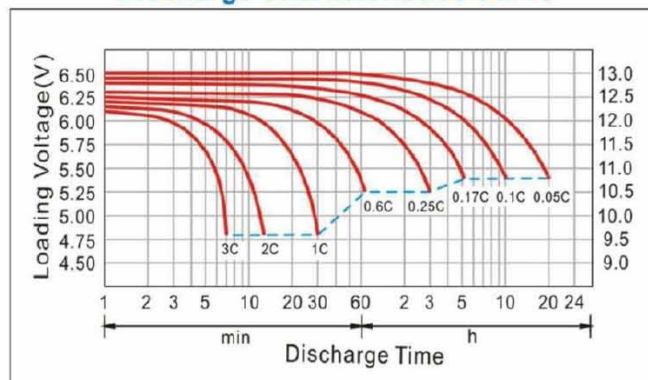
### 12V 33Ah SLA Battery



|                             |                                                                                                                                                         |                                |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Nominal Voltage (V)         | 12V (6 cells in series)                                                                                                                                 |                                |
| Rated Capacity              | 33.0Ah                                                                                                                                                  | (C <sub>10</sub> , 1.80V/cell) |
| Dimensions(mm)              | Length                                                                                                                                                  | 195 ± 2 mm                     |
|                             | Width                                                                                                                                                   | 130 ± 2 mm                     |
|                             | Height                                                                                                                                                  | 155 ± 2 mm                     |
|                             | Total Height                                                                                                                                            | 178 ± 2 mm                     |
| Nominal Capacity @25°C (Ah) | 20 Hour rate (1.769A to 10.8 volts)                                                                                                                     | 35.3Ah                         |
|                             | 10 Hour rate (3.333A to 10.8 volts)                                                                                                                     | 33.3Ah                         |
|                             | 5 Hour rate (5.706A to 10.8 volts)                                                                                                                      | 28.5Ah                         |
|                             | 1 Hour rate (20.89A to 10.5 volts)                                                                                                                      | 20.8Ah                         |
| Approx. Weight              | 9.4 kg                                                                                                                                                  |                                |
| Terminal                    | T8                                                                                                                                                      |                                |
| Max.Discharge Current       | 264A @25°C (5s)                                                                                                                                         |                                |
| Internal Resistance         | 10.5mΩ @25°C (Full Charged Battery)                                                                                                                     |                                |
| Floating Design Life        | 10 years @25°C                                                                                                                                          |                                |
| Ambient Temperature         | Charge: -15°C~50°C                                                                                                                                      |                                |
|                             | Discharge: -20°C~60°C                                                                                                                                   |                                |
|                             | Storage: -20°C~50°C                                                                                                                                     |                                |
| Container Material          | A.B.S , UL94-HB , UL94-V0 , Optional                                                                                                                    |                                |
| Self Discharge              | VRLA batteries can be stored for more than 6 months at 25°C. Self-Discharge ratio less than 3% per month at 25°C. Please charge batteries before using. |                                |



Discharge Characteristics Curve



Constant Current Discharge Characteristics (A), (25°C)

| F.V/TIME   | 5min  | 10min | 15min | 30min | 60min | 2H    | 3H    | 5H    | 8H    | 10H   | 20H   |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V/cell | 110.6 | 70.95 | 57.75 | 37.13 | 21.45 | 12.82 | 8.870 | 5.950 | 4.099 | 3.465 | 1.901 |
| 1.70V/cell | 97.35 | 64.35 | 55.28 | 36.14 | 21.15 | 12.66 | 8.762 | 5.881 | 4.033 | 3.399 | 1.835 |
| 1.75V/cell | 87.45 | 59.40 | 52.31 | 35.15 | 20.89 | 12.49 | 8.663 | 5.792 | 3.993 | 3.366 | 1.802 |
| 1.80V/cell | 75.90 | 53.79 | 49.01 | 33.79 | 20.46 | 12.32 | 8.498 | 5.706 | 3.934 | 3.333 | 1.769 |

Constant Wattage Discharge Characteristics (Watt), (25°C)

| F.V/TIME   | 5min  | 10min | 15min | 30min | 60min | 2H    | 3H    | 5H    | 8H    | 10H   | 20H   |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V/cell | 190.7 | 126.5 | 104.9 | 69.30 | 41.11 | 25.00 | 17.59 | 11.83 | 8.156 | 6.901 | 3.798 |
| 1.70V/cell | 172.0 | 116.9 | 101.8 | 68.05 | 40.72 | 24.78 | 17.42 | 11.72 | 8.045 | 6.787 | 3.670 |
| 1.75V/cell | 156.7 | 109.4 | 97.20 | 66.78 | 40.39 | 24.56 | 17.27 | 11.57 | 7.986 | 6.732 | 3.604 |
| 1.80V/cell | 137.9 | 100.4 | 91.88 | 64.77 | 39.73 | 24.43 | 16.98 | 11.41 | 7.867 | 6.666 | 3.538 |