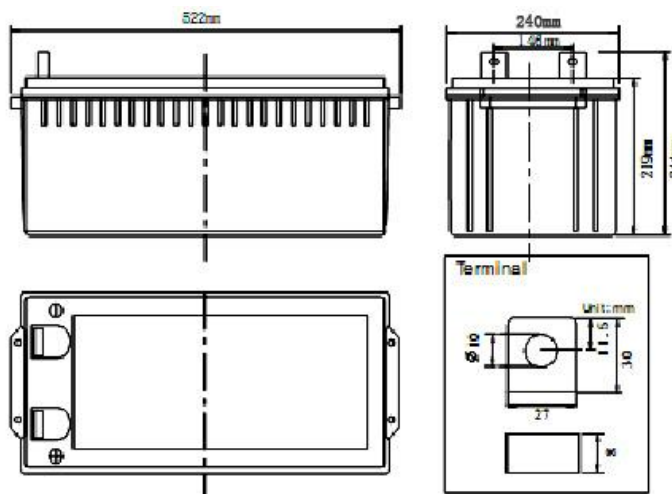


**Product Image**



**Product Dimensions**



**Characteristics**

|  |                           |  |
|--|---------------------------|--|
| Nominal Voltage                                    |                           | 12V  |
| Nominal Capacity (10 hour rate)                    |                           | 180Ah  |
| Capacity<br>25°C (77 °F)                           | 20 hour rate (9.9A)       | 199.8Ah  |
|  | 5 hour rate (32.9A)       | 164.7Ah  |
|  | 1 hour rate (119.8A)      | 119.8Ah  |
| Internal Resistance                                | Full Charged Battery 25°C | ≤2.7mΩ   |
| Capacity affected by<br>Temperature<br>(10 hour)   | 20 hour rate (9.9A)       | 102%   |
|  | 5 hour rate (32.9A)       | 100%   |
|  | 0°C (32 °F)               | 85%  |
| Self-Discharge<br>25°C (77 °F)<br>Capacity         | after 3 month storage     | 90%  |
|  | after 6 month storage     | 80%  |
|  | after 12 month storage    | 62%  |
| Charge<br>(Constant<br>Voltage)<br>25°C<br>(77 °F) | Float                     | Initial Charging Current Less than 36A<br>Voltage 13.6-13.8V |
|  | Cycle                     | Initial Charging Current Less than 36A<br>Voltage 14.4-14.9V |

**Packaging**

|                       |                 |              |
|-----------------------|-----------------|--------------|
| Battery<br>Dimensions | Length          | 522mm        |
|                       | Width           | 240mm        |
|                       | Height          | 219mm        |
|                       | Total<br>Height | 244mm        |
| Box<br>Dimensions     | Length          | 537mm        |
|                       | Width           | 255mm        |
|                       | Height          | 299mm        |
| Quantity Per Box      |                 | 1 PC per box |
| Net weight Per Cell   |                 | 49.0 kg±500g |
| Net weight Per Box    |                 | 49.0kg       |
| Gross Weight          |                 | 49.5kg       |

**Discharge Constant Current per Cell (Amperes at 77°F25°C)**

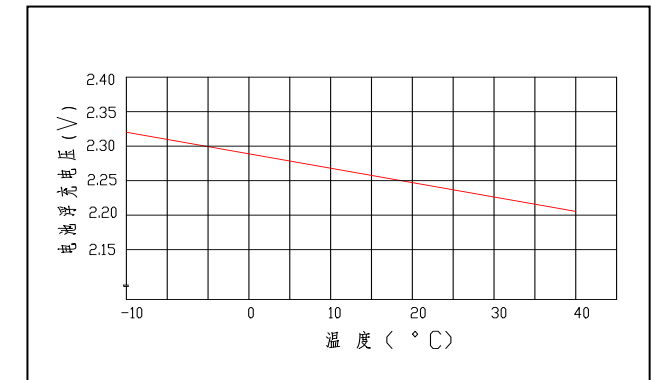
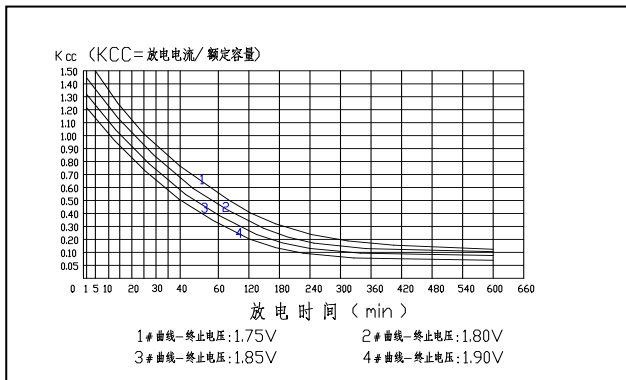
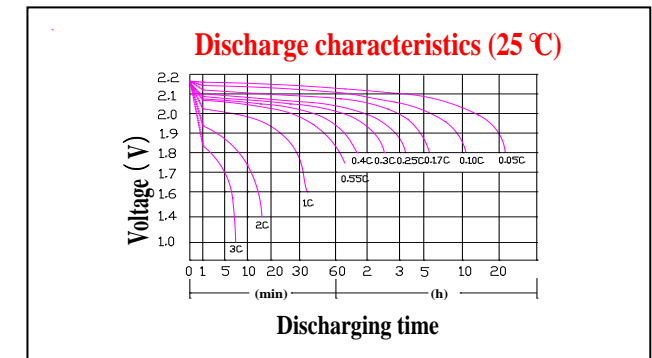
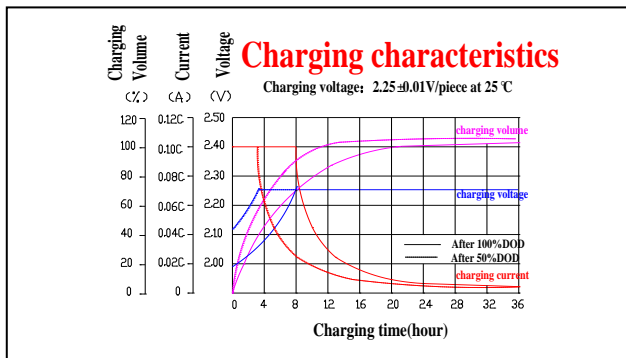
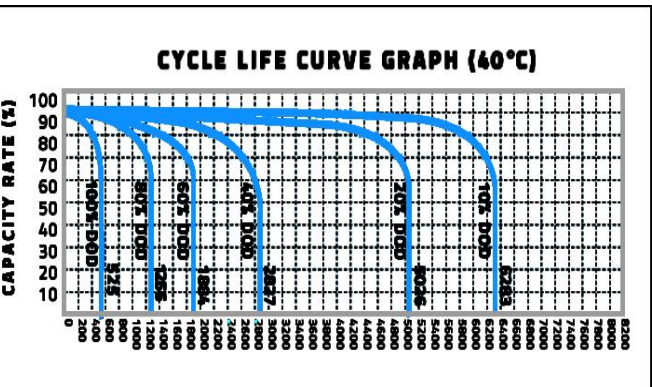
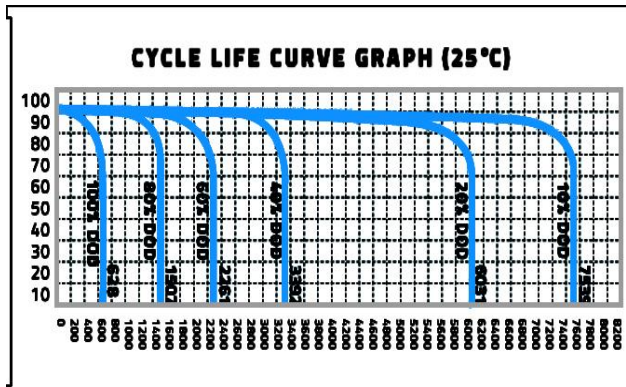
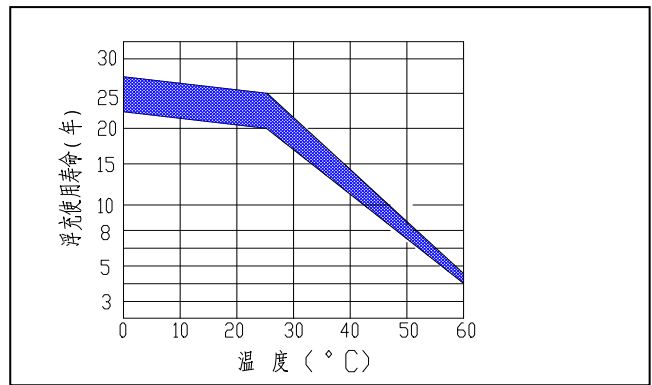
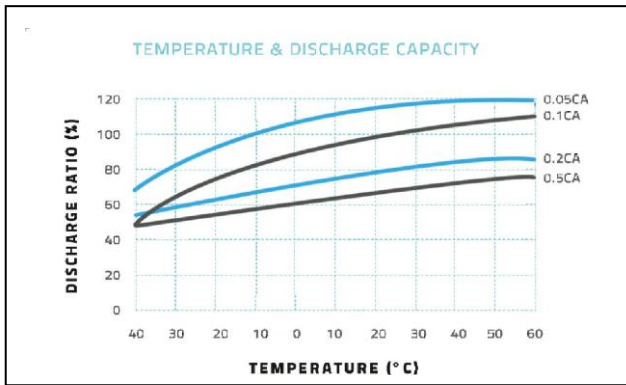
| F.V/Time | 5min  | 10min | 15min | 30min | 45min | 1h    | 2h   | 3h   | 5h   | 8h   | 10h   | 20h   |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|-------|
| 1.60V    | 605.3 | 403.2 | 303.9 | 189.1 | 135.7 | 119.8 | 73.0 | 53.4 | 34.3 | 21.0 | 18.72 | 10.39 |
| 1.65V    | 558.0 | 371.7 | 291.2 | 184.0 | 132.0 | 116.5 | 71.6 | 52.4 | 33.9 | 20.8 | 18.54 | 10.29 |
| 1.70V    | 567.4 | 378.0 | 278.6 | 179.0 | 128.4 | 113.3 | 70.3 | 51.4 | 33.4 | 20.6 | 18.36 | 10.19 |
| 1.75V    | 501.2 | 333.9 | 265.9 | 173.9 | 124.8 | 110.1 | 68.6 | 50.2 | 32.9 | 20.4 | 18.18 | 10.09 |
| 1.80V    | 472.9 | 315.0 | 253.3 | 168.8 | 121.1 | 106.9 | 67.0 | 49.0 | 32.4 | 20.2 | 18.00 | 9.99  |

**Discharge Constant Power per Cell (Watts at 77°F 25°C)**

| F.V/Time | 5min   | 10min | 15min | 30min | 45min | 1h    | 2h    | 3h   | 5h   | 8h   | 10h  | 20h  |
|----------|--------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V    | 1128.8 | 752.0 | 566.8 | 352.7 | 253.0 | 223.3 | 136.1 | 99.5 | 64.1 | 39.1 | 34.9 | 19.4 |
| 1.65V    | 1040.6 | 693.2 | 543.2 | 343.2 | 246.3 | 217.4 | 133.6 | 97.7 | 63.1 | 38.7 | 34.6 | 19.2 |
| 1.70V    | 1058.3 | 705.0 | 519.6 | 333.8 | 239.5 | 211.4 | 131.1 | 95.9 | 62.2 | 38.4 | 34.2 | 19.0 |
| 1.75V    | 934.8  | 622.7 | 495.9 | 324.3 | 232.7 | 205.4 | 128.0 | 93.6 | 61.3 | 38.0 | 33.9 | 18.8 |
| 1.80V    | 881.9  | 587.5 | 472.3 | 314.9 | 225.9 | 199.4 | 124.9 | 91.3 | 60.4 | 37.6 | 33.6 | 18.6 |

**Note** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **US** for the latest information.

**Performance Characteristics**



**Battery Construction**

| Component    | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator  | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|-------------|
| Raw material | Lead dioxide   | Lead           | ABS       | ABS   | Si-Rubber    | Copper   | Fiberglass | Nano        |