

**Product Image**

**Product Dimensions**



**Characteristics**

|  |                           |   |
|--|---------------------------|---|
| Nominal Voltage                                    |                           | 4V  |
| Nominal Capacity (20 hour rate)                    |                           | 3.5Ah   |
| Capacity<br>25°C (77 °F)                           | 10 hour rate (0.33A)      | 3.3Ah   |
|  | 5 hour rate (0.63A)       | 3.12Ah  |
|  | 1 hour rate (2.31A)       | 2.31Ah  |
| Internal Resistance                                | Full Charged Battery 25°C | ≤18mΩ   |
| Capacity affected by<br>Temperature<br>(10 hour )  | 40°C (104 °F)             | 102%  |
|  | 25°C (77 °F)              | 100%  |
|  | 0°C (32 °F)               | 85%   |
|  | -15°C (5 °F)              | 65%   |
| 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 1.5A<br>Voltage 4.4-4.5V |
|  | Cycle                     | Initial Charging Current Less than 1.5A<br>Voltage 4.8-5.0V |

**Packaging**

|                       |                 |               |
|-----------------------|-----------------|---------------|
| Battery<br>Dimensions | Length          | 91mm          |
|                       | Width           | 34mm          |
|                       | Height          | 61mm          |
|                       | Total<br>Height | 66mm          |
| Box<br>Dimensions     | Length          | 105mm         |
|                       | Width           | 320mm         |
|                       | Height          | 220mm         |
| Quantity Per Box      |                 | 30pcs per box |
| Net weight Per Cell   |                 | 0.6 kg ±50g   |
| Net weight Per Box    |                 | 18kg          |
| Gross Weight          |                 | 18.6kg        |

**Discharge Constant Current per Cell (Amperes at 77°F 25°C)**

| F.V/Time | 5min  | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60V    | 16.50 | 11.00 | 8.28  | 5.50  | 3.85  | 3.30 | 2.06 | 1.41 | 0.94 | 0.63 | 0.52 | 0.28 |
| 1.65V    | 16.20 | 10.80 | 8.13  | 5.40  | 3.78  | 3.24 | 2.03 | 1.39 | 0.93 | 0.62 | 0.51 | 0.27 |
| 1.70V    | 15.90 | 10.60 | 7.98  | 5.30  | 3.71  | 3.18 | 1.99 | 1.36 | 0.91 | 0.61 | 0.50 | 0.27 |
| 1.75V    | 15.60 | 10.40 | 7.83  | 5.20  | 3.64  | 3.12 | 1.95 | 1.34 | 0.89 | 0.60 | 0.49 | 0.26 |
| 1.80V    | 15.00 | 10.00 | 7.52  | 5.00  | 3.50  | 3.00 | 1.88 | 1.28 | 0.86 | 0.58 | 0.48 | 0.25 |

**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    | 31.76 | 21.18 | 15.93 | 10.59 | 7.41  | 6.35 | 3.97 | 2.72 | 1.81 | 1.22 | 1.01 | 0.53 |
| 1.65V    | 31.19 | 20.79 | 15.64 | 10.40 | 7.28  | 6.24 | 3.90 | 2.67 | 1.78 | 1.20 | 0.99 | 0.52 |
| 1.70V    | 30.61 | 20.41 | 15.35 | 10.20 | 7.14  | 6.12 | 3.83 | 2.62 | 1.75 | 1.18 | 0.97 | 0.51 |
| 1.75V    | 30.03 | 20.02 | 15.06 | 10.01 | 7.01  | 6.01 | 3.75 | 2.57 | 1.72 | 1.15 | 0.95 | 0.50 |
| 1.80V    | 28.88 | 19.25 | 14.48 | 9.63  | 6.74  | 5.78 | 3.61 | 2.47 | 1.65 | 1.11 | 0.92 | 0.48 |

**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 | Silicon     |