

## Power-Xtra CR1220 3V Lithium Battery

### SPECIFICATIONS OF SINGLE CELL

|              |                            |
|--------------|----------------------------|
| <b>Type</b>  | Li-MnO <sub>2</sub> Button |
| <b>Model</b> | CR1220, CR-1220            |

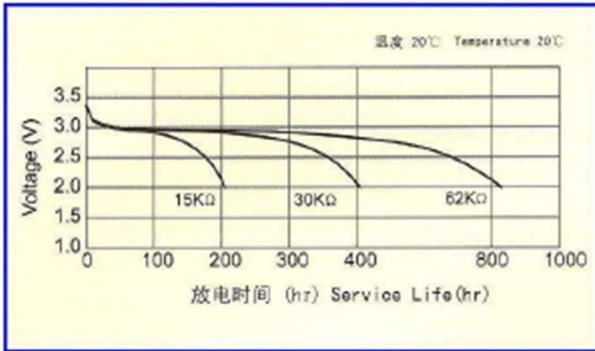
### TECHNICAL INFORMATIONS

| Item                                     | Specifications | Conditions  |
|--|----------------|---|
| Nominal Voltage                          | 3.0V           |   |
| Typical Capacity                         | 40 mAh         | Standard discharge with load 62kΩ   |
| Instantaneous short-circuit current      | ≥100 mA        | Time ≤0.5 second  |
| Off-load voltage                         | ≥3.20 V        | No load   |
| Service Output - Initial                 | 965 h          | Continuous discharge with load 62kΩ, till 2.0v end-voltage at 20~25°C           |
| Service Output - After 12 months storage | 905 h          |   |
| Typical Weight                           | 0.7 gr         |   |
| Recommended Storage Temperature Range    | 20+/-2°C       | 5years after delivery under proper storage conditions.                          |
| Recommended Operation Temperature Range  | -20° C to 60°C |   |
| Self-discharge rate                      | ≤1%            | Stored for 12 months at normal temperature and humidity                         |
| Shelf Life                               | 3-5 Years      | Recommended Storage Range : 20+/-2°C<br>Recommended Humidity Range : 65+/-20%RH |

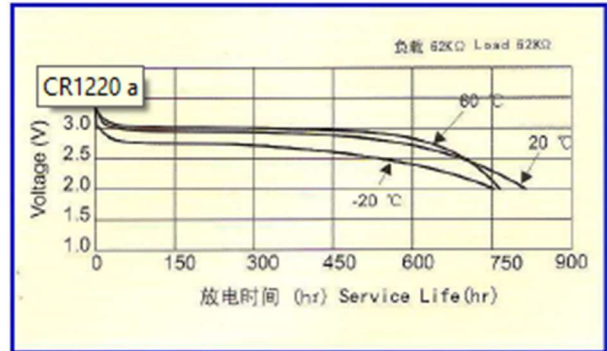
| Item                                | Test Methods   | STANDARD  |                 |
|-------------------------------------|--|---|-----------------|
|                                     |  | Parameter                                       | Value           |
| Dimension                           | Using vernier caliper (accuracy≥0.02) while avoiding short-circuit   | Diameter  | 12.5 (-0.20) mm |
|                                     |  | Height  | 2.0 (±0.1) mm   |
| Off-load voltage                    | Using multimeter (accuracy≥0.25%) internal resistance≥1MΩ  | ≥3.20v  |                 |
| Instantaneous short-circuit current | Time of short-circuit should be less than 0.5 second and avoid repeated test within half an hour   | ≥100 mA   |                 |
| Appearance                          | Eyeballing   | Bright, clean, no rust, no leakage, And no flaw |                 |
| Capacity                            | Continuously discharge with load 7.5kΩ, temperature at 20~25°C, humidity at 65±20% till 2.0v end-voltage (for fresh battery only: within 3 months )                            | ≥965 h  |                 |
| Vibration test                      | Put battery on the platform of the vibrations machine, start the machine and adjust the frequency form 10 times per minute to 15 times per minute. keep it running for an hour | Characteristics keep stability                  |                 |
| Leakage at high temperature test    | Stored under temperature (50°C) for 10 days  | No leakage allowed                              |                 |
| Over discharge Test                 | After 2.0v end-voltage, continuously discharged for 5 hours  | No leakage allowed                              |                 |

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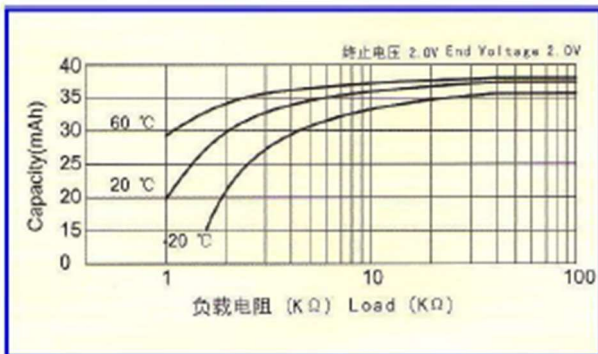
### Discharge Characteristics



### Temperature Characteristics



### Load Capacity



### Pulse Discharge Characteristics

