Small Lithium ion Rechargeable battery
CT04120

Small lithium-ion rechargeable battery with high rate charge / discharge, long cycle life and high safety

Advantages

① Quick charge characteristics
High-rate charging (10C) is possible, and charging control IC is unnecessary.

② Excellent discharge characteristics
Continuous discharge with a maximum discharge rate of 10C is possible. In addition, since the internal resistance is low and the voltage drop is small, stable discharge is possible even under a large peak load or low temperature.

③ Long cycle life
Charge (capacity) recovery rate keeps over 80% even after 5000 cycles.

④ High safety
No thermal runaway occurs because of using chemically stable lithium titan.

Benefits & Applications

1. Small power equipment
• Quick charge with High rate (10C, 30mA) is available
• Constant voltage charge is available
• Able to use many times due to long cycle life
• High safety and small weight saving

Application Example:
✓ Electric pens
✓ Wearable equipment

2. Backup
• System backup even when the main battery is replaced or the battery is disconnected
• High power discharge is available
• Constant voltage charge is available
• Charge control IC is unnecessary.

Application Example:
✓ Handy terminal / barcode reader
✓ POS (payment terminals, etc.)
✓ Other battery powered equipment

3. Energy Harvesting Systems
• Chargeable/dischargeable in wide rate ranges
• Long operating time due to low leakage current
• High power output is available
• Resistant to over discharge
• Operation temperature is wide

Application Example:
✓ Solar battery charger equipment
✓ Sensor node with wireless sensor network in combination with micro and macro energy harvesting systems

Specifications

<table>
<thead>
<tr>
<th>Product name</th>
<th>CT04120</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>Nominal Voltage</td>
<td>2.3V</td>
<td>ΦD 4mm</td>
</tr>
<tr>
<td>Charge Voltage</td>
<td>2.7V</td>
<td>L 12mm</td>
</tr>
<tr>
<td>End of Discharge Voltage</td>
<td>1.8V</td>
<td>Φd 0.45mm</td>
</tr>
<tr>
<td>Discharge capacity</td>
<td>3mAh</td>
<td>F 1.5mm</td>
</tr>
<tr>
<td>ESR@1kHz</td>
<td>1000mΩ</td>
<td>Operating temp -20~70°C</td>
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