

# 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

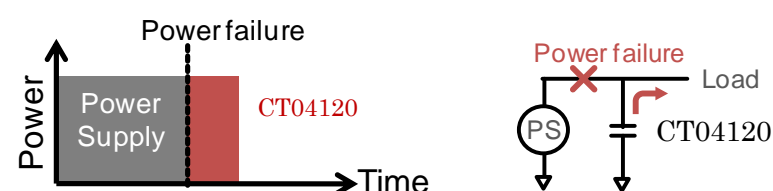


##### Application Example:

- ✓ 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.

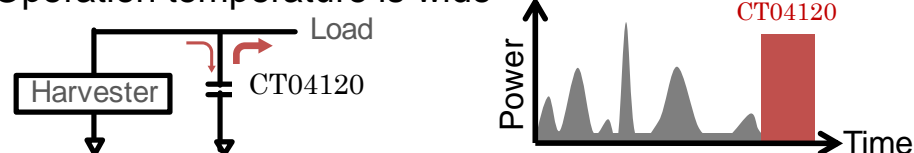


##### Application Example:

- ✓ 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

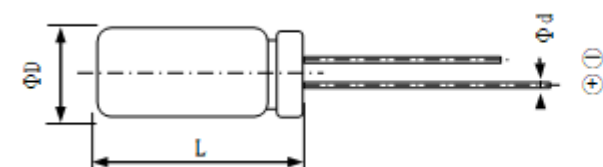


##### Application Example:

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

### Specifications

Product name	CT04120	Dimensions	
		$\Phi D$	4mm
Nominal Voltage	2.3V	L	12mm
Charge Voltage	2.7V	$\Phi d$	0.45mm
End of discharge Voltage	1.8V	F	1.5mm
Capacity	3mAh	Operating temp	-20~70°C



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