

# Primary Lithium Battery CP505050

3.0V [Li-MnO<sub>2</sub>]

#### **BENEFITS**

- High Voltage Response, Stable During Most of the Lifetime of the Application
- Energy Density up to 830Wh/L
- Wide Operating Temperature Range (-40°C ~+70°C)
- Low Self-discharge Rate (less than 1% per year after 1 year of storage at +25 °C)

## **References Data**

### **Electrical characteristics**

#### Open circuit voltage (at 23±2°C)

#### Nominal capacity

#### 3000mAh

≥3.10V

(At +25°C, battery discharged at continuous current 10mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)

#### Maximum continuous current

#### 1500mA

(At +25°C, 2.0V cut-off, battery discharged for minimum 50% of rated capacity.)

#### Maximum pulse discharge current 2000mA

(At +25°C, 2.0V cut-off, battery discharged for minimum 50% of rated capacity with max pulse for 3 seconds after 27 seconds break. The discharged capacity may vary according to the pulse characteristics, the temperature, and the cell's previous history. Fitting the cell with a capacitor may be recommended in severe conditions, consult Akyga Battery.)

Storage (recommended)	≤+30°C
	≤75%RH
Operating temperature range	-40°C~+70°C

(Operation above ambient Temperature may lead to reduced capacity and lower voltage readings at the beginning of pulses, consult Akyga Battery.)

## **KEY FEATURES**

- Optimized Battery Structure, Full Discharge Capacity
- Long Endurance
- No Passivation
- GB 8897.4-2008、IEC 60086.4:2014 and RoHS

## **MAIN APPLICATIONS**

- Security System
- Smart Metering
- RFID and Tracking System
- Wireless Transmitting
- Smart Home Devices
- Military Devices

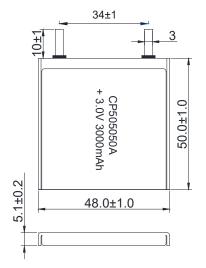


## Primary Lithium Battery CP505050

3.0V [Li-MnO<sub>2</sub>]

Physical characteristic	S
Width	48.0±1.0mm
Height	50.0±1.0mm
Thickness	5.1±0.2mm
Typical weight	23.0g
Li metal content	1.12g

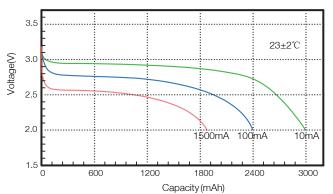
MSDS as per request Diode (1N4007, 1N5819) PTC (SRS175...) Tag, wire, connector, etc. available



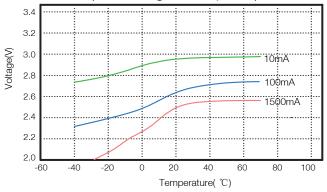
## **WARNING:**

- Do Not Short Circuit
- Do Not Recharge
- Do Not Puncture
- Do Not Crush
- Do Not Dismantle
- Do Not Incinerate
- Do Not Mix New and Used Batteries
- Do Not Heat Above 100°C

#### 1. Typical discharge profiles at 23±2°C (at mid-discharge)



2. Typical discharge profiles with different current (at discharge stable phase)



#### 3. Storage characteristics

