

# Primary Lithium Battery CP504644

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)

#### **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

#### **References Data**

#### **Electrical characteristics**

Open circuit voltage (at 25°C)

≥3.10V

#### **Nominal capacity**

2400mAh

(At +25°C, battery discharged at continuous current 5mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)

#### Maximum continuous current

1200mA

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

#### Maximum pulse discharge current 1500mA

(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

(For more severe conditions, consult Ayga Batter **₹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.)



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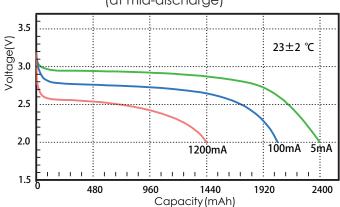
Physical characteristics	
Width	Max47.0mm
Height	Max45.0mm
Thickness	Max5.0mm
Typical weight	17.5g
Li metal content	0.66g

MSDS as per request Diode (1N4007, 1N5819) PTC (SRS175...)

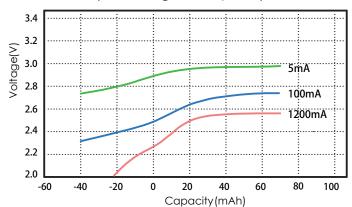
#### **WARNING:**

- 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 25°C (at mid-discharge)



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



3.Storage characteristics

