TECHNICAL SPECIFICATION

LITHIUM MANGANESE DIOXIDE BUTTON BATTERY

MODEL: AGFAPHOTO CR1220

Typed/制作	SAM LUO
Approved/审批	KEN LEE
Date/日期	2023

The Manufacturer reserves the right to modify product specification and data stated herein without prior notice

1. Scope

This specification applies to lithium manganese dioxide button battery supplied by GBT GmbH

Model: CR1220

Reference Document: IEC60086-1-2021, IEC60086-2-2021

GB/8897-1-2021, GB/8897-2-2021

2. Nominal Voltage 3.0V

3. Nominal Capacity 40mAh

Condition: Continuous discharge at 20±2°C under load 62kΩ for 24 hrs/day to EPV 2.0V

4. Continuous discharge current 1mA

5. Off-load Voltage ≥3.2V

Acceptance Standard: MIL-STD-105E, Class Π, Double Sampling, AQL=0.4

6. Temperature Range -30~70°C

7. Average Weight 0.75g

8. Chemical System Li/MnO₂

9. Discharge Performance

	Minium AverageDuration (h)	Conditions
New battery Tested within 30days after delivery	965	Continuous discharge at 20±2°C,55±20RH% under load 62kΩ for 24 hrs/day to EPV
After 3 mth.at 45±2°C	905	

Acceptance Standard

- (1) Test nine batteries
- (2) Calculate the average without the exclusion of any result
- (3) If this average is equal to or greater than the specified figure and no more than one

battery has a service output of less than 80% of the specified figure, the battery are considered to conform to service output.

(4) One re-test is allowed to confirm the previous result.

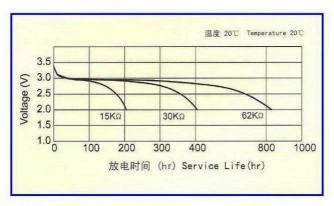
10. Leakage

Item	Requirements	Test Condition
Leakage	No Leakage	45±2℃,55±20RH%, 30days

- 11. Self-discharge: ≤1%/year (Condition: 20±2°C,55±20RH%,12mth)
- 12. Shelf Life: 1 year (Condition: 20±2°C,55±20RH%)
- 13. DischargeCharacteristics

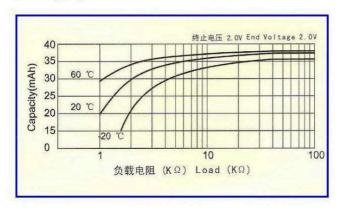
标准曲线 STANDARD CHARACTERISTICS

定电阻放电曲线 Discharge Characteristics



电阻容量曲线

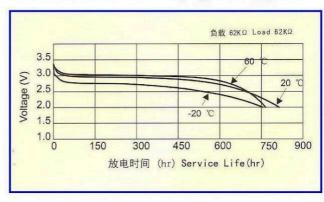
Load-capacity



温度放电曲线

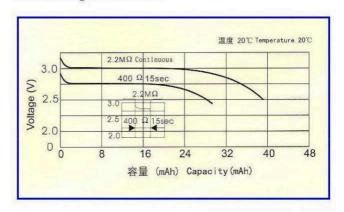
Temperature Characteristics

终止电压 2.0V 负载 62KΩ



脉冲放电曲线

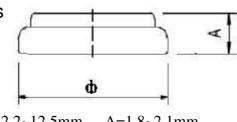
Pulse Discharge Characteristics



14. Compliance & Environmental Information

This product complies with EU Battery Directive 2006/66/EC, RoHS

15. Battery Dimensions



 Φ =12.2~12.5mm A=1.8~2.1mm

16. Caution for Use

- (1) The battery shall be installed with its "+" and "-" polarity in correct position, otherwise may cause short circuit.
- (2) Short-circuiting, heating, disposing of into fire and disassembling the battery are prohibited
- (3) New and used batteries cannot be used at the same time.
- (4) Keep away from the small children, if swallowed promptly see doctor.
- (5) Do not recharge the batteries.

17. Marking on battery

(1)	Model	CR1220
(2)	Voltage	3V
(3)	Polarity Marking	"+"
(4)	Brand of manufacturer	AGFAPHOTO

(5) Others