fullwat®
professional solutions

FU-PL-CR2477T • Lithium Button cell

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1. Scope

The specification is applicable to Fullwat Lithium Button cell FU-PL-CR2477T.

2. Ratings

TABLA 1

Item		Unit	Specifications	Conditions
Nominal voltage		V	3.0	
Nominal capacity		mAh	1100	Standard discharge with load 4.7kΩ
Instantaneous short–circuit current		mA	≥250	Time≤0.5 second
Off-load voltage		V	≥3.20	
Operating temperature		ºC	-20~60	
Standard weight		g	10.2	Unit cell
Service output	Initial	Standard	1900h	Continuous discharge with load 4.7kΩ, till 2.0v end-voltage at 20~25ºC
	After 12 months storage	Standard	1800h	

TABLA 2

Item	Conditions	Characteristics	
Thermal durability	Kept for 20 days at 60ºC ±3ºC, then continuously continuously discharge with 4.7kΩ load till 2.0v end-voltage	Standard	1800h
Self-discharge rate	Stored for 12 months at normal temperature and humidity	≤5%	

3. Performance and test methods

Unless otherwise stated, all the testing is carried out under the condition: environmental temperature, 20ºC~25ºC; environmental humidity, 65±20%. Please refer to Table 3.

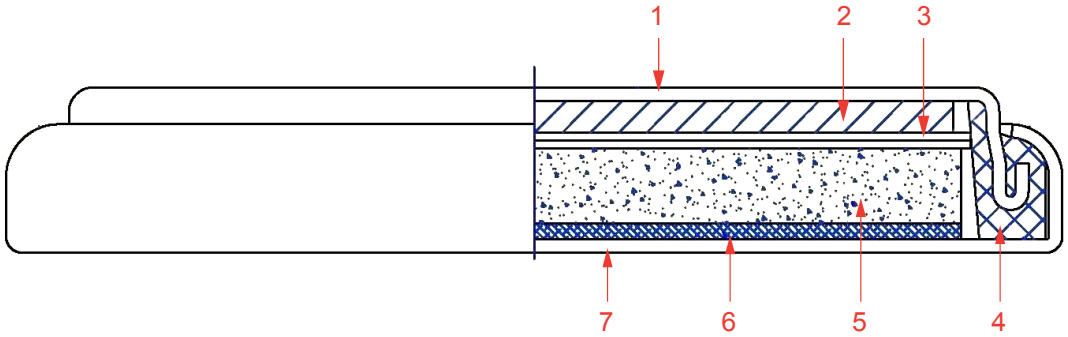
4. Suggestions and cautions

1. Install batteries correctly.
2. Ensure the contact points to be clean and conductive.
3. Do not mix different types, different brands batteries to serve together.
4. Do not heat, recharge the batteries.
5. Do not dispose of the batteries in fire.
6. Keep away from the small children, if swallowed promptly see doctor.
7. Pay attention to the producing date.

TABLA 3

Item	Test Methods	Standared
Dimensions	Using vernier caliper (accuracy≥0.02) while avoiding short-circuit	Diameter 24.5 (-0.20) mm Height 7.7 (-0.20) mm
Off-load	Using multimeter (accuracy≥0.25%) internal resistance≥1MΩ	≥3.20 V
Instantaneous short-circuit current	Time of short-circuit should be less than 0.5 second and avoid repeated test within half an hour	≥250 mA
Appearance	Eyeballing	Bright, clean, no rust, no leakage, And no flaw
Capacity	Continuously discharge for 8 hours with load 4.7kΩ, temperature at 20~25ºC, humidity at 65±20% till 2.0v end-voltage (for fresh battery only: within 3 months)	≥1900 h
Vibration test	Put battery on the platform of the vibrations machine, start the machine and adjust the frequency form 10 times per minute to 15 times per minute. keep it running for an hour	Characteristics keep stability
Leakage at high temperature store	Stored under temperature (60ºC) for 7 days	No leakage allowed
Over discharge test	After 2.0v end-voltage, continuously discharged for 5 hours	No leakage allowed

5. Cutaway diagram of 3.0V Lithium manganese dioxide button cell

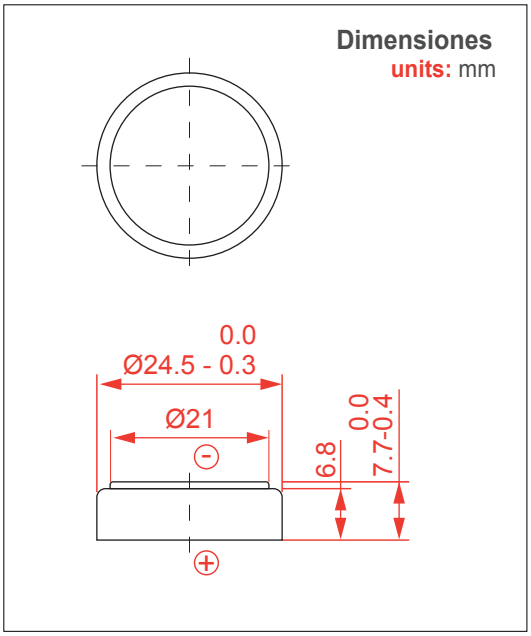


1. Cathode Shell	**5.** Anode (MnO_2)
2. Cathode (slice of lithium)	**6.** Anode collector net
3. Septum	**7.** Anode shell
4. Gasket	

6. Discharge characteristics

Especifications

Nominal voltage	3V
Nominal capacity	1100mAh
Load resistance	4.7kΩ
Weight	10.2g
Using temperature	-20ºC~75ºC



Standard characteristics