

FU-PL-CR1225T • Lithium-Manganese button cell





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1. Scope

This specification governs the performance of the following FULLWAT Lithium button cell.

2. Ratings

Table 1

| Item | | Unit | Specifications | Condition | |
|-------------------------------------|-------------------------|----------|----------------|--|--|
| Nominal voltage | | V | 3.0 | | |
| Nominal capacity | | mAh | 50 | Standard discharge with load $62k\Omega$ | |
| Instantaneous short–circuit current | | mA | ≥100 | Time ≤0.5 second | |
| Off-load voltage | | V | ≥3.20 | | |
| Operating temperature | | °C | -20~60 | | |
| Standard weight | | g | ~0.85 | Unit cell | |
| Service output | Initial | Standard | 1210h | Continuous discharge with load | |
| | After 12 months storage | Standard | 1140h | 62kΩ, till 2.0v end-voltage at 20~25°C | |

Table 2

| Item | Conditions | Condition | |
|---------------------|---|-----------|-------|
| Thermal durability | Kept for 10 days at 50 ± 3 , then continuously discharge with 62k Ω load till 2.0v end-voltage | Standard | 1140h |
| Self-discharge rate | Stored for 12 months at normal temperature and humidity | ≤1% | |

3. Performance and test methods

Unless otherwise stated, all the testing is carried out under the condition: environmental temperature, $20^{\circ}\text{C}\sim25^{\circ}\text{C}$; environmental humidity, $65\pm20\%$. Please refer to Table 3.

4. Suggestions and cautions

- 4.1 Install batteries correctly.
- 4.2 Ensure the contact points to be clean and conductive.
- 4.3 Do not mix different types, different brands batteries to serve together.
- 4.4 Do not heat, recharge the batteries.
- 4.5 Do not dispose of the batteries in fire.
- 4.6 Keep away from the small children, if swallowed promptly see doctor.
- 4.7 Pay attention to the producing date.

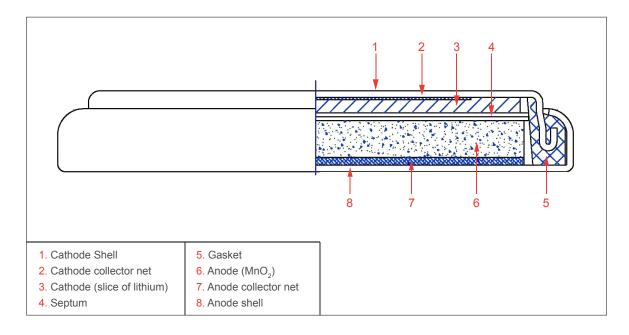


$\textbf{FU-PL-CR1225T} \bullet \textbf{ Lithium-Manganese button cell}$

Table 3

| No | Item | Test methods | Performance | |
|----|-------------------------------------|---|--|-----------------|
| 1 | Dimensions | Using vernier caliper (accuracy ≥0.02) while avoiding | Diameter | 12.5 (-0.20) mm |
| ' | Difficusions | short-circuit. | Height | 2.50 (±0.1) mm |
| 2 | Off-load voltage | Using multimeter (accuracy 0.2≥5%) internal resistance 1MΩ. | ≥3.20v | |
| 3 | Instantaneous short-circuit current | Time of short-circuit should be less than 0.5 second and avoid repeated test within half an hour. | ≥100mA | |
| 4 | Appearance Eyeballing. | | Bright, clean, no rust, no leakage, And no flaw | |
| 5 | Capacity | Continuously discharge with load 62kΩ, temperature at 20~25°C, humidity at 65±20% till 2.0v end-voltage (for fresh battery only: within 3 months). | ≥1210h | |
| 6 | 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 | |
| 7 | Leakage at high temperature | Stored under temperature (50°C) for 10 days. | No leakage allowed | |
| 8 | Over discharge test | After 2.0v end-voltage, continuously discharged for 5 hours. | No leakage allowed | |

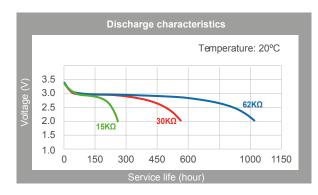
5. Cutaway diagram of 3.0V Lithium Manganese dioxide button cell.

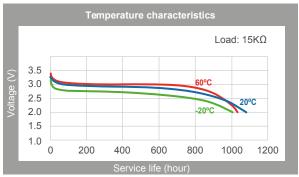


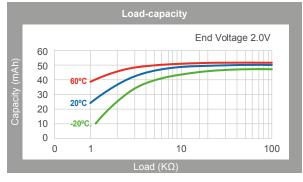


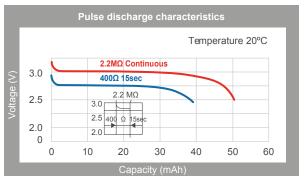
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6. Discharge characteristics

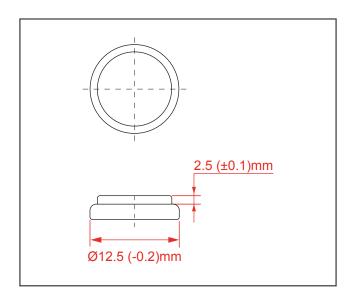








7. Dimensions



8. Warranty

The warranty is specified in our warranties section of Terms of Sales. If the product is to be stored for more than three months it is necessary to perform the appropriate maintenance to ensure the good condition of the batteries. Consult our annex to the Terms of Sales on the recommended maintenance.