TECHNICAL SPECIFICATION

1. Scope:

1.1 Designations
Powercell: 27A
Others: L828, A27, MN27, MS27, V27GA, LR27A

1.2 Reference Document
IEC 60086-1 :2021 --- Primary Batteries - Part 1: General
IEC 60086-2 :2021--- Primary Batteries - Part 2: Physical and electrical specification
IEC 60086-5-2016— Primary Batteries –Part 5：Safety of batteries with aqueous electrolyte

2. Chemical System：

Alkaline Zinc-Manganese Dioxide (KOH Electrolyte)：(-) Zn｜KOH｜MnO2(+)
0% Mercurio (Hg) y 0% Cadmio (Cd).

3. Nominal Voltage：12.0 V

4. Average Weight：4.9 g

5. Nominal Capacity：

Designed for alkaline applications in compliance with IEC standards

6. Electrical characteristics：

Test conditions: 20℃±2℃

Testing time	Off-load voltage	(1.0KΩ) On-Load Voltage	Acceptance Level
Initial (Within 30 days after delivery)	≥12.4V	≥11.4V	MIL-STD105E, Class Ⅱ, Double Sampling, AQL=0.4
After 12 months	≥12.2V	≥10.8V	

7. Safety Characteristics

Test Item	Conditions	Period	Requirements	Acceptance standard
Over-discharge Characteristics	Temp.: 20±2℃ Load：20KΩ	Continuous discharge 48 hours after discharge termination	No leakage or explosion by eye	N=9, Ac=0, Re=1

8. Marks

The following marks will be printed or stamped on the batteries's body:
(1)Designation: 27A
(2)Registered Trademark：POWERCELL
(3)Nominal Voltage：12V
(4)Battery Poloidal："+"and"-"
(5)Warning: This batter is not rechargeable, May explode or leak if charged, connected reversly, disposed of in fire.

9. Safety precautions

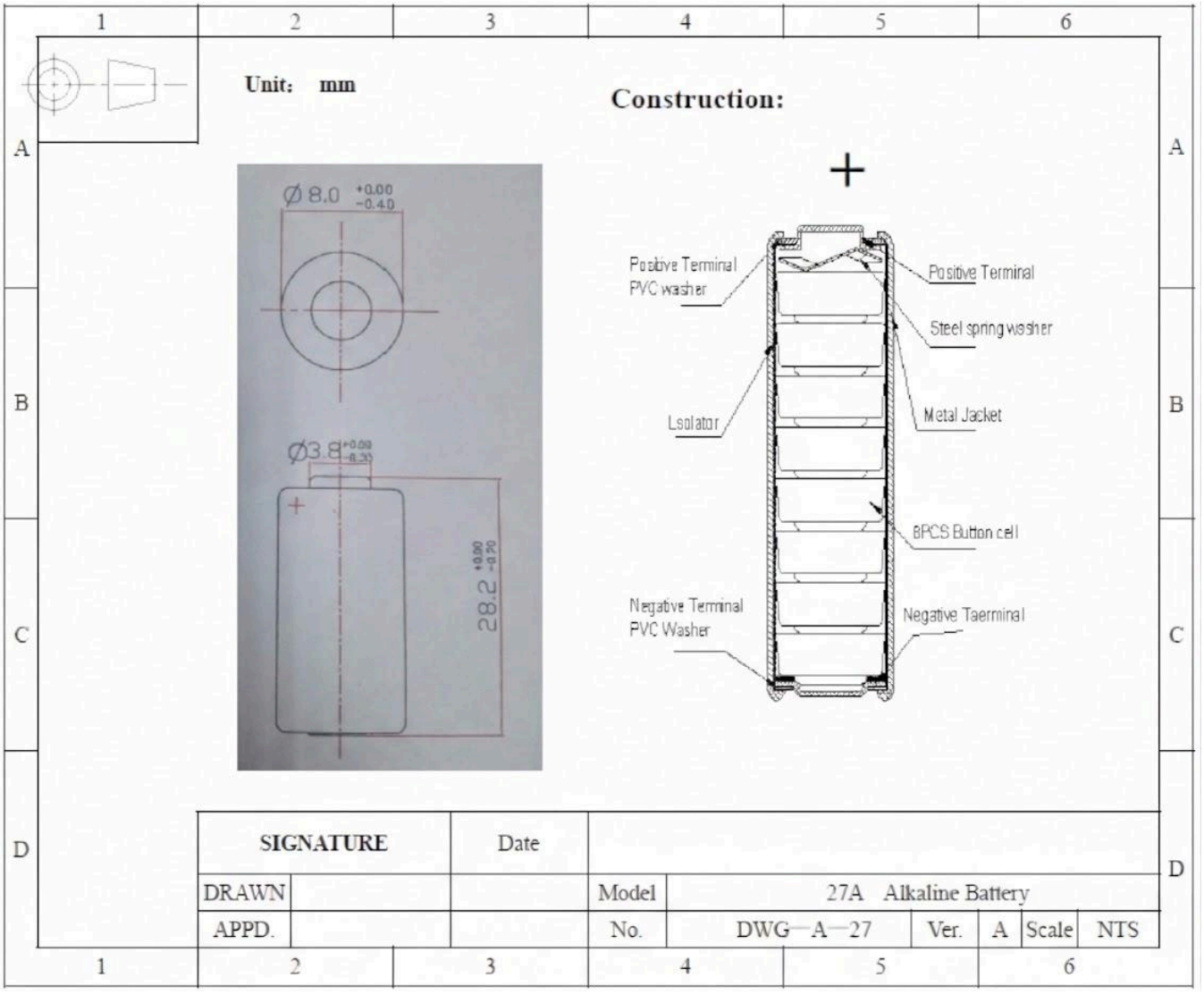
a) Do not charge the battery as this may cause battery leakage and damage to charging equipment.
b) Insert batteries correctly with regard to the polarities (＋and－) marked on the battery and the equipment.
c) Do not short circuit, heat, or put the battery into fire.
d) Do not disassemble the battery as the internal electrolyte will corrode the skin.

e) Do not use both new and used batteries at the same time.
f) Please remove the depleted battery from the appliance to avoid leakage caused by over discharge.
g) Batteries should be kept out of reach of children to prevent accidental ingestion.
h) Before installing the battery into the electrical appliance, wipe the cover with alcohol to better utilize and protect the appliance.
i) Batteries should not come into contact with corrosive substances such as strong acids and alkalis.

10. Warranty period

3 years.

11. Size and structure



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