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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

DL/T 637-2019

Replacing DL/T 637-1997

**Fixed valve-regulated lead-acid battery for power
(English Translation)**

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Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and definitions
4 Symbols
5 Model compilation
6 Classification, specifications and application ambient temperature
6.1 Battery classification
6.2 Battery specifications
6.3 Ambient temperature for battery application
7 Technical requirements
7.1 Structural requirements
7.2 Safety requirements
7.3 Usability requirements
7.4 Electrical compliance requirements
7.5 Durability requirements
8 Test method
8.1 Measuring instruments
8.2 Preparation before test
8.3 Visual inspection
8.4 Internal inspection
8.5 Weighing
8.6 Terminal check
8.7 Tightness check
8.8 Gas evolution test
8.9 High current withstand capability test
8.10 Explosion-proof capability test
8.11 Anti-acid fog ability test
8.12 Safety valve test
8.13 Ground short circuit resistance test
8.14 Flame retardancy test of materials
8.15 Resistance to mechanical damage test

- 8.16 Cold and heat resistance test
- 8.17 Capacity performance test
- 8.18 Charge retention performance test
- 8.19 Recharge performance test
- 8.20 Impulse discharge performance test
- 8.21 Connection performance test between batteries
- 8.22 Terminal voltage equalization test
- 8.23 Internal resistance test
- 8.24 60°C Floating Charge Durability Test
- 8.25 Overdischarge sensitivity test
- 8.26 Mark and mark durability test
- 8.27 Discharge and impulse discharge characteristic curve test
- 9 Inspection Rules
 - 9.1 Inspection classification
 - 9.2 Type test
 - 9.3 Inspection items and sample quantity
 - 9.4 Inspection criteria
- 10 Information to be provided when inquiring, ordering and bidding
 - 10.1 Information to be provided when inquiring and ordering
 - 10.2 Information to be provided when bidding
- 11 Packaging, marking, transportation and storage
 - 11.1 Packaging
 - 11.2 Logo
 - 11.3 Accompanying documents
 - 11.4 Product Warranty Document
 - 11.5 Product Manual
 - 11.6 Accompanying accessories
 - 11.7 Installation accessories
 - 11.8 Transportation
 - 11.9 Storage
- Appendix A (informative appendix) Evaluation of internal resistance of batteries and their applications
- Appendix B (informative appendix) Structural dimensions of battery plates and busbars

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is a revision of DL/T 637-1997 "Technical Conditions for Ordering Valve Regulated Sealed Lead-acid Batteries", and is in line with DL/T 637-Compared with 1997, the main differences are as follows.

--The name of the standard was changed to "Fixed Valve Regulated Lead Acid Battery for Electric Power";

--Added the adsorption electrolyte valve-regulated lead-acid battery, gel electrolyte valve-regulated lead-acid battery, and the test room to measure the internal resistance of the battery and on-site measurement of battery internal resistance and other terms and definitions;

--Added model designation;

-Added classification, specifications and application ambient temperature;

-Supplemented the structural technical requirements of the external dimensions and weight;

-Supplemented the safety technical requirements for the ability to resist acid fog, the ability to withstand grounding short-circuits, the flame-retardant ability of materials, and the ability to resist mechanical damage;

--Supplementary technical requirements for charging parameters and recharging performance;

-Modified the electrical consistency technical requirements for terminal voltage balance and internal resistance;

- Supplement the durability technical requirements for 60°C float charge durability, overdischarge sensitivity and durability of signs and marks;

- Deleted the technical requirements for overcharge resistance and overcharge life that have been deleted in GB/T 19638.1-2014;

--Modified the test method and inspection rules;

--Added information that should be provided when inquiring, ordering and bidding;

-Modified packaging, marking, transportation and storage;

-Add Appendix A (informative appendix) "Evaluation of internal resistance of batteries and their applications".

-Add Appendix B (informative appendix) "Structural dimensions of battery plates and bus bars".

This standard was proposed by the China Electricity Council.

This standard is under the jurisdiction of the Power Industry High Voltage Switchgear and DC Power Supply Standardization Technical Committee.

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1 Scope

This standard specifies the classification, specifications and application ambient temperature of fixed valve-regulated lead-acid batteries for electric power (hereinafter referred to as batteries) Technical requirements, test methods, inspection rules, information, packaging, marking, transportation and storage that should be provided when inquiring, ordering and bidding.

This standard applies to substations, converter stations, power plants and other power facilities that are integrated with DC power equipment or AC and DC power equipment Combined together or fixed in the battery room, it is mainly used for floating charge operation, used for control, protection, power, operation, accident lighting and uninterrupted Power supply or similar valve-regulated lead-acid batteries and battery packs.