Chinastandards.org

DL

INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

DL/T 2246.4-2021

Technical specification for grid-connected operation and control of electrochemical energy storage station - Part 4: Relaying protection

电化学储能电站并网运行与控制技术规范 第4部分：继电保护

(English Translation)

Issued by: National Energy Administration

Preview: page 1 of 4 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-2246-4-2021

Chinastandards.org

Table of Contents

[Preview only]
1 Scope
1.2 Normative references
3 Terms and definitions
3.1 General requirements
3.2 Rock
3.3 Cement and mineral admixtures
3.4 Aggregate of high-performance self-compacting concrete
3.5 Chemical admixtures
4 Interface flange 5052 H112 GB/T 3880
4.1 General
4.2 Rated voltage (Ur)
4.3 Rated insulation level
4.4 Rated frequency (fr)
4.5 Rated normal current (Ir) and temperature rise
4.6 Rated short-time withstand current (Ik)
4.7 Rated peak withstand current (Ip)
4.8 Rated duration of short circuit (tk)
5 Fixed tray 5754 H112 GB/T 3191
5.1 Designation of materials used for main parts and components
5.2 Seal ring material requirements
5.3 Earthing of circuit-breakers
5.4 Auxiliary and control equipment
5.5 Power operation
5.6 Stored energy operation
5.7 Independent manual operation
5.8 Operation of releases
5.9 Low- and high-pressure interlocking devices
6 Cooling tube 1050A GB/T 6893
6.1 Requirements for arrangement of tube bundle cooling element
6.2 Design pressure of tube bundle
6.3 Design of tube bundle structure

Preview: page 2 of 4 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-2246-4-2021

6.4 Measurement of the resistance of the main circuit
6.5 Temperature-rise tests
6.6 Short-time withstand current and peak withstand current tests
6.7 Verification of the degree of protection
6.8 Tightness tests
6.9 Electromagnetic compatibility (EMC) tests
7 Tube plate and connecting plate 5A05 and 6063 T6 GB/T 6892
7.2 Dielectric test on the main circuit
7.3 Tests on auxiliary and control circuits
7.6 Design and visual checks
7.7 Mechanical operating and mechanical characteristic tests
7.8 Gas humidity measurement
8 Inspection and acceptance
9 Marking, packaging, storage and transport

1 Foreword

DL/T 2246.4-2021 was issued by National Energy Administration on 7 January 2021.

It is one of 9 parts of the DL/T 2246 series.

The DL/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

2 Scope Preview

DL/T 2246.4-2021 carries no ICS number and no Chinese Standard Classification code.

This catalogue holds 4,757 other DL/T standards.

Of the 2,309 DL/T standards that do carry an ICS number, 1,146 (50%) fall under ICS 27, in the field of energy and heat transfer engineering.

3 About this standard

Sector: Electricity & Power

Issued by: National Energy Administration

English translation: about 15 pages (approximate)

Preview: page 3 of 4 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-2246-4-2021

4 Related standards

Other parts of this standard:

DL/T 2246.1-2021 - Part 1: Grid-connected operation commissioning

DL/T 2246.2-2021 - Part 2: Integration and operation

DL/T 2246.3-2021 - Part 3: Acceptance of grid connected operation

DL/T 2246.5-2021 - Part 5: Security and stability control

DL/T 2246.6-2021 - Part 6: Dispatch information communication

DL/T 2246.7-2021 - Technical specification for grid-connected operation and control of electrochemical energy storage power station - Part 7: Inertia support and damping control

DL/T 2246.8-2021 - Technical specification for grid-connected operation and control of electrochemical energy storage power station - Part 8: Simulation modeling

DL/T 2246.9-2021 - Technical specification for grid-connected operation and control of electrochemical energy storage power station - Part 9: Simulation calculation model and parameter measurement

5 Classification and status

Chinese Standard Classification (CCS): K 45

Prefix DL/T: recommended standard.

Preview: page 4 of 4 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-2246-4-2021