Chinastandards.org

DL

INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

DL/T 698.45-2026

Replacing DL/T 698.45-2017

Energy metering and monitoring system - Part 4-5: Communication protocol - Data exchange protocol

能源量测监控系统 第4-5部分：通信协议—数据交换协议

(English Translation)

Issued on: June 26, 2026 **Implemented on: December 26, 2026**

Issued by: National Energy Administration

Preview: page 1 of 5 shown, full document available. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-698-45-2026

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 5 shown, full document available. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-698-45-2026

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 698.45-2026 was issued by National Energy Administration on 26 June 2026 and takes effect on 26 December 2026.

It replaces the earlier edition DL/T 698.45-2017.

It is one of 20 parts of the DL/T 698 series.

2 Scope Preview

DL/T 698.45-2026 carries no ICS number and no Chinese Standard Classification code.

This catalogue holds 5,181 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

Issued by: National Energy Administration

4 Related standards

Other parts of this standard:

DL/T 698-1999 - Automatic meter reading for LV customers

Preview: page 3 of 5 shown, full document available. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-698-45-2026

DL/T 698.1-2009 - Data acquisition and management system for electrical energy. Part 1: General consideration

DL/T 698.1-2021 - Data acquisition and management system for electrical energy - Part 1: General consideration

DL/T 698.1-2025 - Energy Measurement and Monitoring System - Part 1: General Provisions

DL/T 698.2-2010 - Data acquisition and management system for electrical energy. Part 2: Technical specification of master station

DL/T 698.2-2021 - Data acquisition and management system for electrical energy - Part 2: Technical specification of master station

DL/T 698.31-2010 - Data acquisition and management system for electrical energy. Part 3-1: Technical specification of electrical energy data acquisition terminal. General requirement

DL/T 698.32-2010 - Data acquisition and management system for electrical energy. Part 3-2: Technical specification of electrical energy data acquisition terminal-special requirement for data acquisition terminal of power station and substation

DL/T 698.33-2010 - Data acquisition and management system for electrical energy. Part 3-3: Technical specification of electrical energy data acquisition terminal. Special requirement for data acquisition terminal of special transformer

DL/T 698.34-2010 - Data acquisition and management system for electrical energy. Part 3-4: Technical specification of electrical energy data acquisition terminal. Special rquirement for data acquisition terminal of common transformer

DL/T 698.35-2010 - Data acquisition and management system for electrical energy. Part 3-5: Technical specification of electrical energy data acquisition terminal. Special requirement for meter rending terminal of LV customers

DL/T 698.36-2013 - Data acquisition and management system for electrical energy. Part 3-6: Technical specification of electrical energy data acquisition terminal-communication unit requirement

DL/T 698.41-2010 - Data acquisition and management system for electrical energy. Part 4-1: communication protocol. Master station communication with data acquisition terminal

DL/T 698.42-2013 - Data acquisition and management system for electrical energy. Part 4-2: communication protocol. Concentrator downward communication

DL/T 698.44-2016 - Data acquisition and management system for electrical energy??Part 4-4: Communication protocol-Micro-power wireless communication protocols

DL/T 698.46-2016 - Electricity Information Acquisition and Management System - Part 4-6:

Preview: page 4 of 5 shown, full document available. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-698-45-2026

Communication Protocol - Acquisition Terminal Remote Communication Module Interface Protocol

DL/T 698.51-2016 - Electricity Information Acquisition and Management System - Part 5-1: Test Specification - Functional Test

DL/T 698.52-2016 - Data acquisition and management system for electrical energy. Part 5-2: Testing technical specification. Remote communication protocol conformance test

DL/T 698.61-2021 - Data acquisition and management system for electrical energy - Part 6-1: Software requirement. Technical requirements for terminal software upgrade

Other editions:

DL/T 698.45-2017 (earlier edition)

5 Classification and status

Prefix DL/T: recommended standard.

Preview: page 5 of 5 shown, full document available. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-698-45-2026