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

GB/T 19862-2025

Replacing GB/T 19862-2016

**General requirements for monitoring equipment of power
quality**

电能质量监测设备通用要求

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 19862-2016 "General Requirements for Power Quality Monitoring Equipment". Compared with GB/T 19862-2016, except for the structural... Aside from structural adjustments and editorial changes, the main technical changes are as follows:

---The definitions of terms have been changed. power quality monitoring equipment (see 3.1, 2016 edition), and influence (see 3.3, 2016 edition). 3.5) Scope of impact (see 3.4, 3.6 in the 2016 edition);

---The term and its definition have been removed. Limiting operating conditions (see 4.2 in the 2016 edition);

---The following terms and their definitions have been changed. "time accumulation" has been changed to "time aggregation" (see 3.5,

3.7 in the 2016 edition); "wave" has been changed to "time aggregation" (see 3.5,

3.7 in the 2016 edition); The term "peak coefficient" has been changed to "peak value coefficient" (see 3.7,

3.10 in the 2016 edition);

---The measurement section has been removed (see section

4.2 of the 2016 version);

---Added signal interface requirements for electromagnetic instrument transformers (see 5.1.3.3);

---Added satellite time synchronization requirements (see

1 Scope

GB/T 19862-2025 is the Chinese national standard covering the power quality monitor - the measurement classes and the accuracy for harmonics, flicker, dips and unbalance, the aggregation intervals and the time synchronisation, the event capture and the storage, and the communication of the results. Issued on 5 October 2025, it has been in force since 1

February 2026, replacing GB/T 19862-2016.

This document specifies the classification and grading of power quality monitoring equipment (hereinafter referred to as "monitoring equipment"), its technical requirements, and describes the corresponding test procedures. The document outlines testing methods and specifies inspection rules, marking, packaging, transportation, and storage. This document applies to fixed and portable monitoring equipment used in AC power systems, as well as other equipment with power quality monitoring functions. The equipment should be operated according to the instructions.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 191 Pictorial Symbols for Packaging and Storage

GB/T 2423.1 Environmental testing of electrical and electronic products - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 This is a specialized device for monitoring power quality indicators by analyzing and processing the introduced voltage and current signals.

Note. Online power quality monitoring equipment is also called online power quality monitoring device or power quality monitoring terminal.

7 Electronic Voltage Transformers

GB/T 20840.8 Instrument Transformers - Part

8 Electronic Current Transformers

GB/T 30137 Power Quality - Voltage Surge, Voltage Sag and Short Interruption DL/T 860 (All Parts) Substation Communication Networks and Systems