

10kV Photovoltaic Power Station Relay Protection Regulations



Overview

This document applies to the research and development, design, manufacturing, testing, commissioning, dispatching, operation, maintenance, and overhaul related to relay protection in photovoltaic power stations (including those configured with electrochemical energy). This document applies to the research and development, design, manufacturing, testing, commissioning, dispatching, operation, maintenance, and overhaul related to relay protection in photovoltaic power stations (including those configured with electrochemical energy). ICS 29. 240 CCSK45 National Standards of the People's Republic of China Replaces GB/T 32900-2016 Relay protection technical requirements for photovoltaic power plants Published on 2025-12-02 Implemented on 2026-04-01 State Administration for Market Regulation The State Administration for. Abstract: Information on the concepts of protection of ac transmission lines is presented in this guide. Applications of the concepts to accepted transmission line-protection schemes are also presented. Many important issues, such as coordination of settings, operating times, characteristics of. Relay protection plays a critical role in the safe and reliable operation of electrical power networks, including those in the renewable energy sector. To ensure standardized and reliable protection, various standards have been developed by international organizations such as the Institute of. This VuSpec includes 47 active IEEE standards, guides, recommended practices in the Power Systems Relays family. To efficiently export this electricity to the utility grid, the generated voltage must be stepped up to medium or high voltage levels—such as 11kV, 33kV, 66kV, or 132kV—depending. This document specifies the general requirements, configuration requirements, setting requirements, and setting management requirements for relay protection in photovoltaic power stations. This document applies to the research and developme...

Article Content

Oct 02, 2025

GB/T 32900-2025 English, GB/T 32900-2025 Technical requirements ...

This document specifies the general requirements, configuration requirements, setting requirements, and setting management requirements for relay protection in photovoltaic power stations.

Apr 30, 2026

Powering Protection: Relay Schemes, Grid Compliance ...

It elaborates on the types of protection relays used, relevant national and international compliance standards (including CEA, IEC, IEEE, and IS), and ...

Apr 22, 2026

Centralized Substation Protection and Control

The report then discusses some of the emerging and future applications for protection and control which will require a paradigm shift in the way we approach the engineering, operation and maintenance of ...

Mar 19, 2026

RELAY AND CONTROL REQUIREMENTS FOR PARALLEL ...

Submit customer proposed one-line diagram as Point of Common Coupling Requirements for described in the Section 8.2.1, include PCC protection Distribution Voltage Facilities, REMSI sketches, Relay ...

Oct 02, 2025

GB/T 32900-2025 PDF English

This document applies to relay stations connected to the grid at voltage levels of 10kV and above (including photovoltaic power stations equipped with electrochemical energy storage).

Aug 28, 2025

IEEE Power Systems Relays Standards Collection: VuSpec™

Power System Relays Standards concentrate on the application, design, construction and operation of protective, regulating, monitoring, reclosing, synch-check, synchronizing and auxiliary relays.

Mar 16, 2026

IEEE Guide for Protective Relay Applications to Transmission Lines

Special protection systems, protection of multi-terminal lines, and single-phase tripping and reclosing are also included. The impact of different electrical parameters and system performance considerations ...

Nov 20, 2025

Analysis of Influence of Distributed Photovoltaic on 10kV Line Relay ...

After the photovoltaic is connected, the distribution network will become a multi-source network, and the photovoltaic output will be large. During this period, the line is prone to reverse current flow, which ...

Apr 02, 2026

Powering Protection: Relay Schemes, Grid Compliance & Voltage ...

It elaborates on the types of protection relays used, relevant national and international compliance standards (including CEA, IEC, IEEE, and IS), and includes visual references such as...

Oct 15, 2025

GB/T 32900-2016

This standard specifies the configuration principles, setting principles and setting management requirements for the relay protection of power equipment in photovoltaic power stations.

Jan 04, 2026

Standards for Relay Protection in Renewable Energy

These standards provide a framework for designing, implementing, and maintaining relay protection systems in renewable energy applications, promoting the safe and reliable integration of ...

Contact Us

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