

ICS 27.160
CCS F 12

SJ

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

SJ/T 12029.2.1-2025

**Residential Grid-Connected Photovoltaic Power Generation
Systems - Part 2-1: General Design Requirements
(English Translation)**

Issued on: September 9, 2025

Implemented on: March 1, 2026

Issued by: Ministry of Industry and Information Technology

Table of Contents

What this standard covers	1
Document data	2

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This standard specifies design guidelines for residential grid-connected PV power generation systems, covering general design principles, meteorological data collection, selection of major equipment and materials, as well as requirements for PV array design, structural design, electrical safety design, system grid-connection design, and design documentation. It applies to systems installed on fixed residential buildings, structures, and associated premises that connect to the user-side grid or public grid at voltage levels of 220 V or 380 V. The single-point connection capacity should generally not exceed 8 kW for the 220 V level or 400 kW for the 380 V level; systems using other voltage levels may also refer to this standard. This standard does not apply to concentrating PV systems, though other PV systems may use it as a reference.

Document data

International classification (ICS): 27.160.

Chinese classification (CCS): F12.

Estimated length of the Chinese original: 10,196 words.