

# National Standards for Photovoltaic Grid-connected Inverters



## Overview

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New US regulations for grid-tied inverters are set to take effect in January 2026, impacting manufacturers, installers, and consumers by introducing enhanced safety, cybersecurity, and grid support functionalities for a more resilient and modern power system. The safe and reliable installation of photovoltaic (PV) solar energy systems and their integration with the nation's electric grid requires timely development of the foundational codes and standards governing solar deployment. Technological advances, new business opportunities, and legislative and. NLR provides strategic leadership and technical expertise in the development of standards and codes to improve the integration, interconnection, and interoperability of electric generation and storage technologies. Performance standards are critical to building a clean and modern grid—they. The American company EPC Power makes utility-scale PV inverters, also known as photovoltaic or solar inverters.

## National Standards for Photovoltaic Grid-connected Inverters

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### Essential Grid Reliability Standards for Inverter-Based Resources

These standards will impact the design, manufacture, testing, and certification of equipment, as well as their performance, interconnection, and operation in the nation's power grid.

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### PV Inverter and BESS Converters Certification

UL Solutions provides inverter and converter testing and certification and evaluation services for compliance with a wide range of local, national and international standards to original ...



### Solar inverter certifications: UL 1741, IEC 61683, IEC 62109

These requirements cover inverters, converters, charge controllers, and interconnection system equipment (ISE) intended for use in stand-alone or grid-connected power systems.

## Grid-connected photovoltaic inverters: Grid codes, topologies and

Efficiency, cost, size, power quality, control robustness and accuracy, and grid coding requirements are among the features highlighted. Nine international regulations are examined and ...



## National Electrical Code compliance

In this section, we explain the grid-connection options for installing an Enphase Energy PV system, and guidelines to comply with NEC section 705, including references made in NEC 2014 to AC AFCI ...

## Solar Interconnection Standards & Policies , US EPA

Interconnection standards define how a distributed generation system, such as solar photovoltaics (PVs), can connect to the grid. In some areas of the United States, the interconnection ...



## Grid Standards and Codes , Grid Modernization , NLR

The goal of this work is to accelerate the development of interconnection and



interoperability requirements to take advantage of new and emerging distributed energy resource ...

## Codes and Standards

The safe and reliable installation of photovoltaic (PV) solar energy systems and their integration with the nation's electric grid requires timely development of the foundational codes and standards governing ...



## » New US Grid-Tied Inverter Regulations: Your 2026 Guide

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## Power Inverter Certification According to Grid Codes

EPC must certify their PV inverters to national and international grid codes and

quality standards, including ISO 9001:2015. Keeping up with many such standards was a challenge for their ...



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