



Interpretation of the latest national standard photovoltaic inverter

What is a sustainability standard for photovoltaic modules & inverters?

The Sustainability Standard for photovoltaic modules and inverters is a set of product sustainability performance criteria and corporate performance metrics that exemplify sustainability leadership in the market.

Can smart grid inverters support photovoltaic in New York distribution systems?

Smart Grid Inverters to Support Photovoltaic in New York Distribution Systems, Electric Power Report Institute (Technical Report 3002006278) (Palo Alto, CA: 2015).

Will solar photovoltaic (PV) be a major participant in the electric grid?

The penetration of distributed energy resources (DER) technologies in the electric grid, especially solar photovoltaic (PV) generation, has been increasing rapidly and could become a major participant of the electric generation, thus the need for advanced features that can minimize their impacts.

How will new over-voltage limits affect inverter performance?

Limits on cumulative over-voltage - New over-voltage limits are expected to reduce load rejection over-voltage (LRO), improving inverter response to sudden loss of load. Flicker - incidents may increase where reactive power control becomes unstable, active anti-islanding modulates reactive power or related reactive power control failure.

Do smart inverters affect power quality?

Table 3 provides a summary with some educated speculations on how different power quality parameters may be affected by DER with smart inverters. Beyond meeting PQ requirements for certification, smart inverters can do more to support and maintain voltage quality in the grid.

Do I need a periodic test report for a smart inverter?

Periodic test reports or a log for inspection shall be maintained. The Area EPS Operator may require a commissioning test to be performed outside of the normal periodic testing to verify adherence to this standard at any time. The discussion in this section focuses on the technical requirements for verification of operation of smart inverters.

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