



# New national standard for photovoltaic panels

Why are international standards important in the photovoltaic industry?

**ABSTRACT:** International standards play an important role in the Photovoltaic industry. Since PV is such a global industry it is critical that PV products be measured and qualified the same way everywhere in the world. IEC TC82 has developed and published a number of module and component measurement and qualification standards.

Are photovoltaic solar energy systems safe?

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.

Are rooftop solar PV systems safe?

Modern PV systems do not create safety or reliability problems for grid operators or consumers. The Energy Policy Act of 2005 set IEEE 1547 as the national standard for interconnecting rooftop solar PV systems (and other distributed generation resources) to the grid, and

Will NEC codes affect a rooftop PV system?

[worldonline.com/2014/09/new-nec-codes-will-affect-installations-2.33](http://worldonline.com/2014/09/new-nec-codes-will-affect-installations-2.33) 2014 NEC, Section 690.12.34 The rapid shutdown provisions require that, for conductors more than five feet in length inside a building, or more than ten feet from a PV array, control circuits as part of a rooftop PV system have the ability to reduce voltage

What are the requirements for solar panels on a low-slope roof?

Ballasted, unattached PV systems on low-slope roofs have to meet seven conditions to comply with seismic load requirements in Section 13.6.12. For low-profile systems, the height of the center of mass of any panel above the roof surface must be less than half the least spacing in plan of the panel supports, but in no case greater than 3 feet.

What are the requirements for solar installation in Rhode Island?

Installation location (i.e. mounting racks), and installing the ground and rooftop support brackets.<sup>86</sup> R.I. Gen. Laws § 5-6-11(e).<sup>87</sup> For solar installations in Rhode Island, electricians must complete the installation, connecting, testing, and servicing of all electrical wiring and mounting of

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