

India s residential energy storage inverter standards





Overview

The Union Ministry of New and Renewable Energy (MNRE) has introduced the Solar Systems, Devices, and Components Goods Order, 2025, revising the 2017 version to enforce stricter quality and efficiency standards for solar photovoltaic (PV) modules, inverters, and storage batteries. What is the new standards and labeling program for solar inverters?

Introduction: The Ministry of Power has launched a groundbreaking Standards and Labeling Program for Grid-Connected Solar Inverters, aimed at enhancing product quality, reducing emissions, and empowering consumers to make informed choices.

Is a grid-connected solar inverter a significant milestone in India?

Conclusion: The launch of the Standards and Labeling Program for Grid-Connected Solar Inverters by the Ministry of Power signifies a critical milestone in India's journey towards sustainable energy and environmental conservation.

How efficient are solar inverters in India?

BEE found that most grid-connected solar inverters in India achieve peak efficiencies ranging from 94% to 99%. The data shows that their rated capacity increases so does their efficiency. In a review of 450 models, 445 operated with an efficiency above 97%.

What is MEPS (minimum energy performance standard) for solar inverters?

From December, 2025. The program will function as a Minimum Energy Performance Standard (MEPS) for the product, covering only grid-connected solar inverter without storage, with rated capacity up to 100 kW (in alignment with recent Quality Control Order for solar photovoltaic inverters, issued by the Ministry of New & Renewable Energy).

Are BIS certified solar inverters eligible for renewable energy?



Renewable Energy). Only BIS-certified solar inverters complying with safety standard IS 16221-2:2015 would be eligible to take part in the program. The endorsement Label adopted is based on minimum overall efficiency criteria in accordance with IS 17980:2022 / IEC 62891:2020 as amended Program for solar panels.

What is the market size of solar inverter?

The grid connected solar inverter was found to dominate the market with 80% share of the total solar inverter market. It is expected that the solar inverter market will be Rs. 9,352 crores by the year 2026, growing at a projected CAGR of 14.4% during the period from 2020 to 2026.



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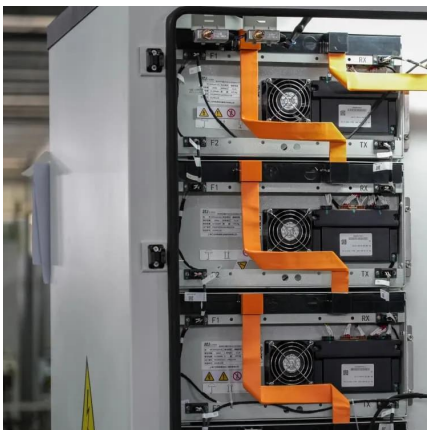
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