ŁOTWA SYSTEM

Inverter to see real-time power

Overview

How can a user view a faulty inverter?

Connection of the specified type of external module (optional) via the dedicated data interface on the inverter,the user can view the inverter's power generation curve and parameters in real time on a mobile app and receive alerts when the inverter is faulty.

How does a photovoltaic inverter work?

Power generation flowing through the transmission line causes unintended flow of reactive power to the grid side, as the transmission reactance consumes reactive power. Thus, the grid-side reactive power becomes coupled with the active power production of the photovoltaic inverter, which fluctuates along with irradiance conditions.

How does a reactive power inverter work?

Based on real-time measurement of the grid impedance, the unintended reactive power is estimated and autonomously compensated in the inverter. The method removes the fluctuating reactive power component, while still permitting unrestricted manual control of the reactive power.

How does a renewable inverter work?

The inverter for renewable production is synchronized to a local point of connection (PoC), where the measurements are taken for control feedback. The current fed to the PoC causes an unintended flow of reactive power when flowing through the reactive grid impedance of the transmission line.

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