Solar OPS-101

Solar O&M Management System

As solar generation applications continue to evolve, ensuring stable equipment operation and maximizing generation efficiency have been a main concern for owners. The platform integrates AI-driven O&M technology with precise data analysis to provide comprehensive equipment monitoring, real-time anomaly detection, and intelligent maintenance recommendations. This reduces operational costs and significantly enhances overall power generation efficiency.

- **Tailored Services & Effortless Revenue Management**
- **AI Predictive Maintenance & Real-Time Data Monitoring**
- **Integrated 161/69/24kV Substation Information**

6 Key Functions

AI-Powered Precision O&M
Leveraging AI technology with thermal mapping and automated alerts, the system accurately identifies equipment issues and provides O&M recommendations, enhancing stability and operational efficiency.

Event Management
Real-time anomaly monitoring, instant alerts, and automated protective measures prevent further damage.

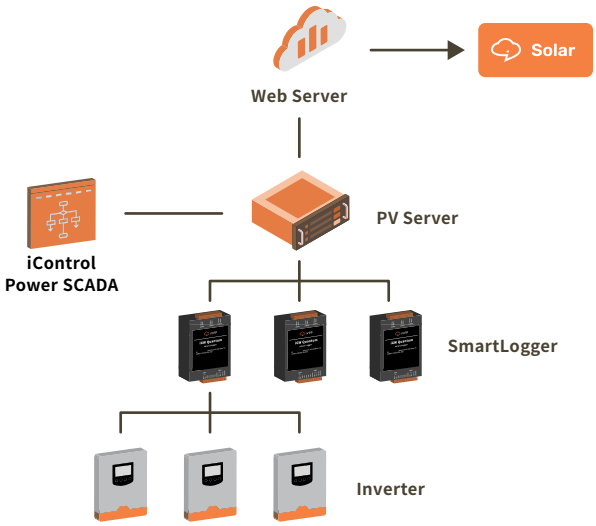
Booster Station Information
As a primary infrastructure for power transmission, the platform provides a clear and intuitive interface for real-time voltage and operational status monitoring, ensuring stable power delivery.

Analysis & Statistics
Through data analysis and trend forecasting, accurately diagnose issues and optimize O&M processes.

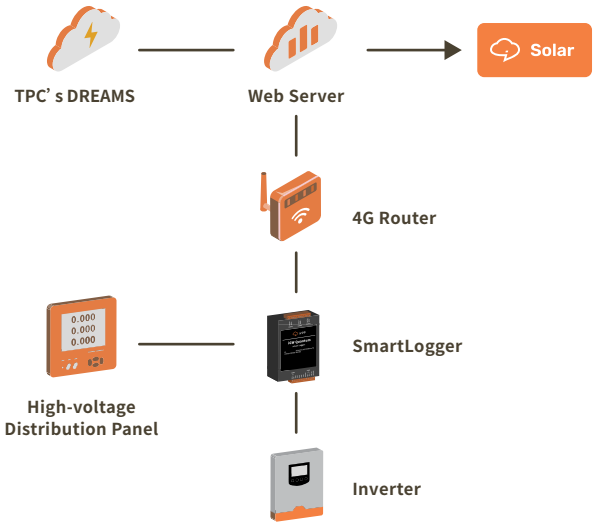
Reactive Power Control
Achieve reactive power control through inverters, precisely adjust reactive power, help stabilize grid voltage and reduce fluctuation risks.

Operation Log
Records all operations and events, facilitating issue tracking, improving O&M efficiency, and ensuring safety management.

System Architecture



Transmission-level (161/69kV) Solar Power Plant



Distributed-level (24/11Kv) Solar Power Plant

Supports TPC’s DREAMS Functionality

Application

- Rooftop solar panels
- Ground-mounted solar panels
- Floating solar panels

Success Cases

- Electric power companies
- Enterprise users
- Government agencies
- Solar O&M services companies
- Factory users

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