Distributed Solar Power Station Monitoring and Management

Solar Power Management System
Intelligently optimising the power station
Advantech's Solar Power Management System (SPMS) improves the efficiency of power generation and reduces the cost of operation and maintenance. Its WebAccess Dashboard enables users to perform remote visual management and mass data analysis of the power stations. While the integrated intelligent monitoring tools take care of daily operations, such as upper system monitoring and station management.

SPMS System Overview
SPMS in control room
See hierarchical visualisation with intelligent analysis of multi-granularity report statistics, such as power generation efficiency and daily load curve.

Set smart notifications to support real-time warnings through alarms, e-mail or SMS. And then use historical data to perform query functions.

Mobile app
Enables remote working with complete oversight of the overall operation with real-time power generation statistics and intelligent alarms in the palm of your hand.

SPMS highlight features
Hierarchical visualised monitoring
See KPI data about the group, power station, equipment and integrated Web GIS.

Intelligent analysis
Use power generation statements to compare efficiency, theoretical power generation and daily load curve.

Operations management
Supports one-click export of Excel reports to automatically send email updates.

Smart alarm
Receive real-time warnings about potential issues through alarms, e-mail and SMS.
System Diagram

Key Advantages

✅ Centralised monitoring: more reliable and simpler systems’ management.

✅ Real-time insight: analyse and visualise your group, station or inverter data in the moment.

✅ Greater intelligence: identify areas for improvement to drive greater power generation efficiency.

✅ Bespoke reporting: customise the data that is displayed on the dashboard and reports.

✅ Smart alarms: receive instant notifications to deal with potential issues quicker.

✅ Remote working: complete oversight of the entire power estate, whenever and wherever through the mobile app.

Order information

SRP-ESP315-M0A

10 x ECU-1251 with Advantech TagLink, 1 x ECU-4784 with Intel Haswell Core i7 1.7GHz, 16GB RAM, 500GB SATA HDD, Windows Server 2008 R2, WebAccess Pro.

Unlimited tags, SPMS