BILLION®

Sync Your Solar System Using the Most Comprehensive IT Technology
Billion BEsmart Intelligent Solar Cloud

A Well-rounded Solar Power Solution integrates Electrical Power Measurement, Data Transferred Gateway, and digital Cloud Analysis.

You invest a great amount of resources in a solar power system, now what? Solar panel installers generally encounter the difficulty of having to separately purchase different brands of meters, communication gateways, and a cloud service to review how much electricity that their solar system actually generates. However, times are not all these devices corporate each other well, causing hassles on trial and error and significant loss of profits. Billion's BEsmart Solar Cloud solution is designed to integrate electronic meters, network gateways, and back-end cloud computing platform into one comprehensive package, aiming to add outstanding values, increase data transmission efficiency, and expand communication interface while reducing the cost and time spent on device installation.

Record Data and Monitor Solar Power Generation with a Smart Meter

Need a selection of cutting-edge meters that cater to all sizes of solar systems? Billion's SG 30 series, a set of outperforming electronic meter devices, allows extremely fluent data transmission through both wired and wireless network channels. Ranging from small solar panels to giant solar system with large electricity generation, BEsmart Intelligent Solar Meters provide single and triple-phase front end measurements to transform solar power generation into digital numbers.

SG3015 series (Single Phase)
- Support ZigBee or RS485 communication
- Build-in 15A/100A/200A/300A CT for metering
- < 0.5%~1% Wh accuracy
- Power surge protection
- Compact size

SG3030 series (Three Phase)
- Support ZigBee or RS485 communication
- Build-in 100A/200A/300A CT for metering
- Electricity usage data and other indicator information collection
- < 1% Wh accuracy
- Power surge protection
- Supports 1P3W, 3P3W, 3P4W
- Dry contact for external appliance control

Innovative Network Gateway Unlocks the Communication of Your Solar System to the Internet

We understand that not every solar panel is built at proximity, sometimes they are even located at scattered places. Billion combines meters with advance communication gateways to accelerate the data transfer by supporting both wired and 3G wireless transmission routes. With full automations and a hybrid data collector providing multiple transmission interfaces, BEsmart Intelligent Gateway is able to receive the status of solar power generation and instantly syn with a cloud computing service to provide real-time system analysis.

SG6200NXL

- Support collect data from ZigBee, Power Line Communication and RS485 sensors.
- Support 3G dongle for easy provide internet connection.
- Wireless bridge the connection with existing wireless AP (Access Point) to reduce installation effort.
- Auto fail-over for always-on connection

An Intelligent Solar Power Cloud with Efficiency Diagnosis and Cross-Field Management

Through monitoring numerous solar panels on a cloud based platform, the information of regional sunlight, temperature, power generation, electric consumption, and historical records are able to be instantly presented as an informative report online. System maintainers can simultaneously manage solar systems built at separated locations and gain an easy access to the centralized management. BEsmart solar cloud does not only dramatically reduce system maintenance cost, but also raise the efficiency of a more effective solar power management.

Cloud Services

Internet

Solar PV Array

CT

Power Cabinet

Solar Inverter

Billion SG3015-T3
Smart ZigBee Meter

Billion SG6200NXL
ZigBee 3G Wireless-N
Smart Energy Gateway

Smart Phone