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PV Station Remote Monitoring system

SmartPV

Intelligent monitoring platform

SmartPV The necessity of remote monitoring

Diversified management interface

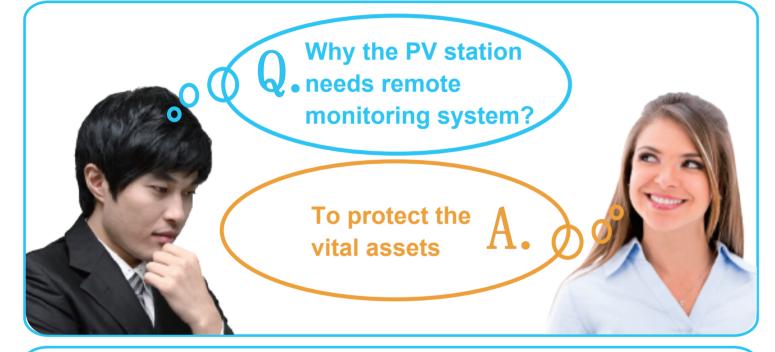
A kind of logger to support station O&M and effectively improve the station management efficiency.

It is important to monitor the running status of each equipment in the PV station. Taoke Logger can provide 24 hours continuous monitoring service and keep the station operation in a good condition.

Compared with CT monitoring, it is more affordable with more detailed PV data information such as the fault status and equipment generated energy etc.

Moreover, it can collect the day, month, year and total energy production information and weather information and support the data analysis function.





To know the fault ASAP!

In the process of normal station operation, some environmental factors such as lightning stroke, snow cover and typhoon etc., which always happened to damage the site equipments and give rise to abnormal energy production; other factors also cause the poor sunlight such as the tall plant or grass which lower the energy production and delay the ROI. For avoiding these risk, it is necessary to install the PV station remote monitoring system.



All SmartPV data is stored in Cloud server so as to viewing and checking in Management interface (SmartPV service). The management interface make the user easy to know the detailed information of running status and energy production of multiple plants.



In addition, for general view to plant, SmartPV provides the interface for common user and can be accordingly used as per the user type.

Management page TOP (Manage user)

Manage user can manage and view the whole station operation status.

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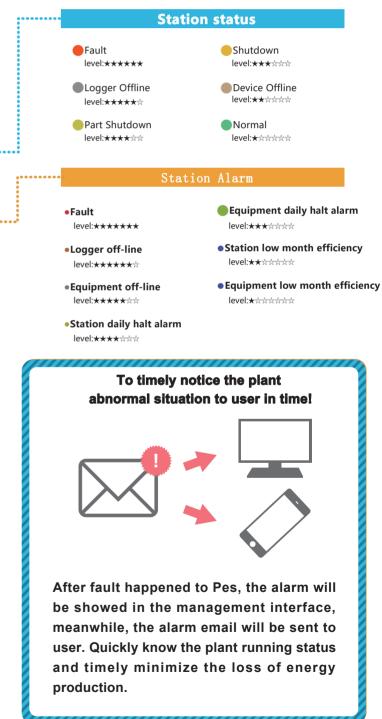
The plant' detailed screen (Common user)

Combining with the site data of weather station to perform the collecting and analysis of all kinds of plant data.



SmartPV





Reasons for choosing PV Smart

SmartPV

Reduce the cost of use !

The cost for SmartPV and CT monitoring is similar, but SmartPV monitoring system can monitor and get high accurate and detailed data from each inverter, so if any abnormal situation happened, user can know the inverter running status and solve the problem quickly.

Simultaneously combine with the function of Ethernet logger and 3G router !

TK series logger adopts high intensification design, simultaneously combined with data collection function of Ethernet logger and wireless transmission function of 3G router, in other word, one pay with double service enjoy.



Long-term data store and real time data view !

If user adopts the service from SmartPV monitoring system, the real time power generation data can be freely stored for 10 year. User can view the historical data and analysis data etc. at any time.

One Datalogger can monitor multiple inverters

Number of connected devices	Purpose	Model
12	Industrial inverter(1~12)	TK-W30-12

Be compatible with most brands inverter in global market

Corresponding brand list

 Delta Electronics, Inc. 	•TMEIC Company
•Hitachi, Ltd.	 Daihen Corp.
 GS Yuasa Corp. 	 Fujisaki Electric Co., Ltd.
•Omron Corp.	•Shindengen Electric Mfg. Co., Ltd.
 Mitsubishi Electric Corp. 	 Yaskawa Electric Corp.
 Meidensha Corp. 	 Sungrow Power Supply Co., Ltd.
 Sanyo Denki Co., Ltd. 	Nissin Electric Co., Ltd.
 Huawei Technologies Co., Ltd 	•Tabuchi Electric Co., Ltd.
Panasonic Corp.	 Schneider electric Corp.
•IDEC Corp.	•SMA Japan Corp.
*Ranking listed in no particular order	

*Reserve for listed brand is available

The compatibility for the brand not listed here is also available, for more information, please contact us.



High

accuracy

Detailed

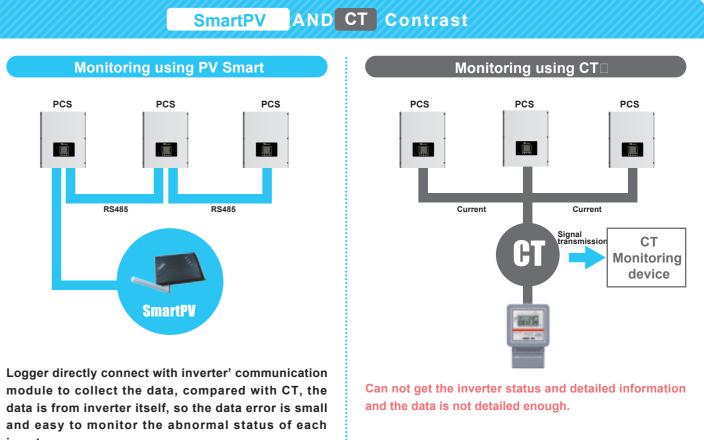
data

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Wall-hanging type Logger collects the data from inverter

through RS485 cable and uploads the data to SmartPV cloud data center. User can login the remote monitoring platform through Internet to manage and check the station data.

Provide detailed information on Inverter Monitoring Data !



inverter.

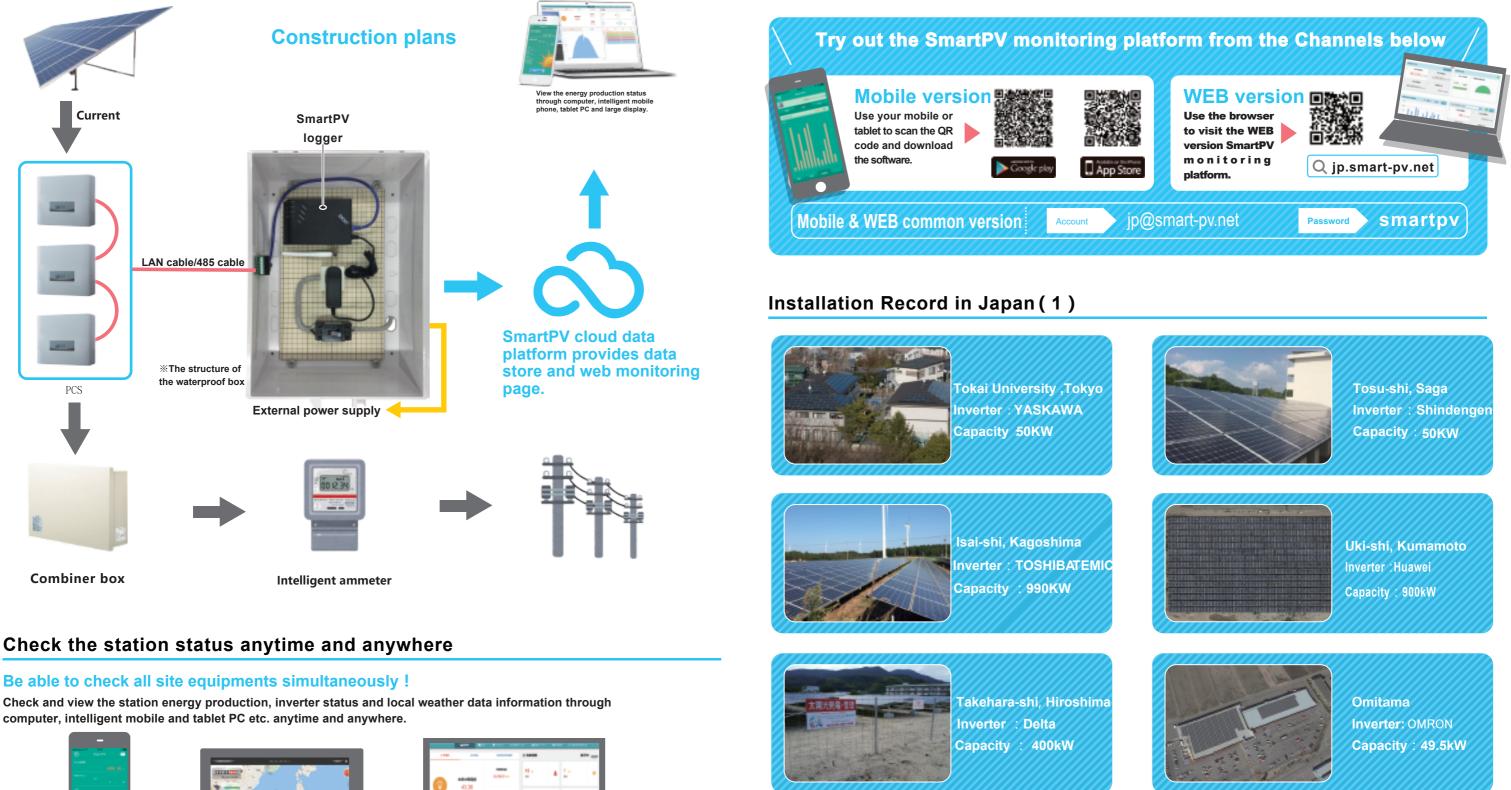
Comparison between SmartPV monitoring system and CT monitoring system

		SmartPV	СТ
Monitoring content (Collected data)	Inverter daily energy production	0	×
	Inverter MPPT information	0	×
	Inverter fault alarm notification	0	×
	Inverter energy productiong comparison	0	×
Other _	Measuring accuracy	0	\bigtriangleup
	Inverter daily halt alarm(day)	0	×
	Inverter month low efficiency alarm(month)	0	×



Installation and application

Installation Record in Japan





Mobile phone

SmartPV



Pad





SmartPV



Isesaki-shi, Gunma SMA Inverter Capacity 57.24kW