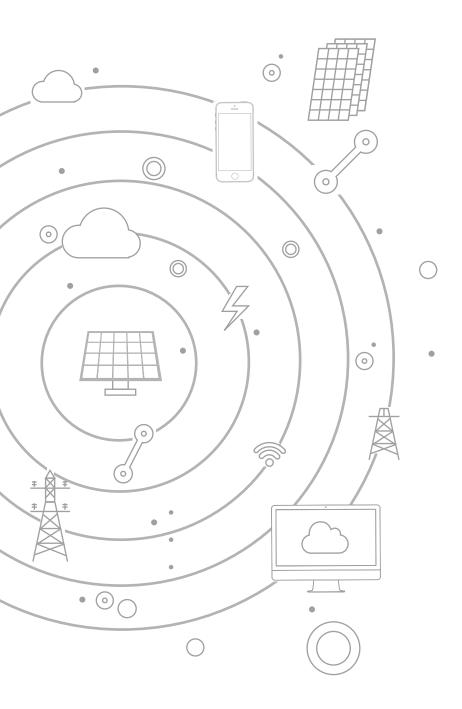


Intelligent management Solutions to power stations



Renac Power Technology Co., Ltd.

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- Station operation & maintenance platform
- Large-screen Operation & Maintenance platform

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- GPRS module (Rail type)
- Data Acquisition reduction machine

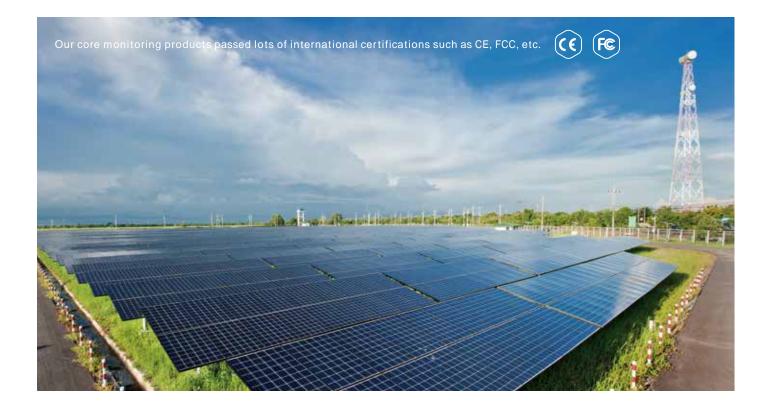
05. Project Reference



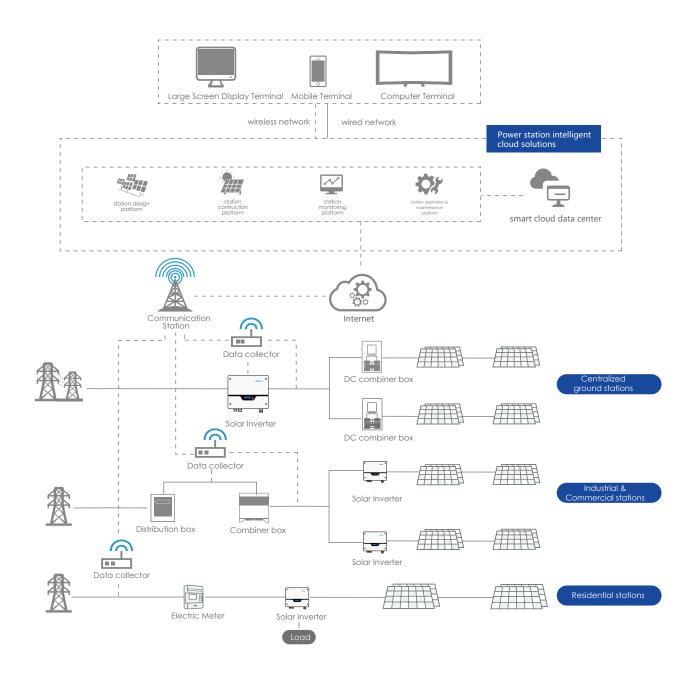
About Renac

Jiangsu Renac Power Technology Co., LTD was founded in 2017. Established in Changzhou National High-tech Industrial Development Zone, Jiangsu province, with a registered capital of RMB 30 million. Renac Power focuses on providing advanced string inverters, hybrid inverters and integrated energy management system solutions for the distributed generation system and micro grid system. Currently there are subsidiaries in Wuxi and offices and warehouses in Shanghai, Nanchang and Shenyang. Since its establishment, Renac Power has won the Wuxi pioneering talent project, High and new technology enterprises to cultivate storage, and Jiangsu Province private high-tech companies honor recognition.

Currently Renac Power has developed into a comprehensive energy technology company integrating "core equipment products, intelligent operation and maintenance of power stations and intelligent energy management".



Power Station Intelligent Cloud Solutions



Design customized data collection solutions or data transfer solutions, to ensure the correctness and effectiveness of data collection.
Self-developed asset management modules, and perfect report system help customers to realize effective management of station life span.
Self-developed ticket system truly realizes online cooperation, utilizing internet technology to troubleshoot quickly.

First "open and sharing" operation and maintenance platform in solar industry, and global offline cooperative partnership network, truly realize Zero-distance operation and maintenance.

Utilize remote monitoring software of the largest global independent PV monitoring brand to recognize and diagnose faults.

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Power station monitoring platform

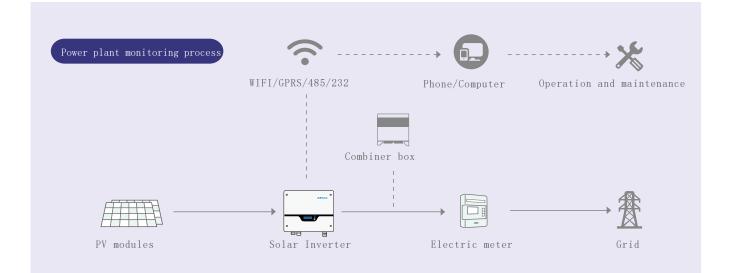


Variety of data

Weather information Power station status Device status, Daily power generation combined with chart form to make all data clear and precise Failure alarm

Real-time monitoring of plant operation and alarm feedback Independent research and development of data collection modules, safe and reliable Big data analysis

Estimate power generation based on weather forecast Analyze and compare plant status Improve power generation efficiency



Module functions	Extreme Edition	Ultimate Edition	Standard Edition	Basic Edition
Weather data monitoring	•	•	•	•
Power station KPI indicator monitoring	•	•	•	
Power station monitoring	•	•	•	•
Power station equipment selection	•			
Power Plant income Forecast and Analysis	•	•		
Power station construction management	•	•		
Asset Management	•	•		
Asset Management	•	•	•	•
Statistical analysis	•	•	•	
Alarm management	•	•	•	•
Device smart analysis	•			
Device management and monitoring	•	•	•	٠
Android Monitor App	•	•	•	٠
IOS Monitor App	•	•		٠
App quick registration	•	•		•



station construction completion and operation







timely information reception and fault handling

 $\sim \sim$ Customer can make

station conditions











Perfect alarm system Data statistics report correct fault analysis with clear station profits

Convenient export real-time monitoring on of data report

Station operation & maintenance platform

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omplete operation and maintenance proce

Operation and maintenance process integration.Operation and maintenance personnel professionalization

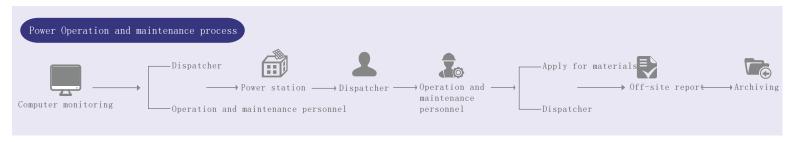
Safe operation and maintenance

Two-ticket Management ensures safe Operation and Maintenance Precise fault analysis reduces operation and maintenance cost

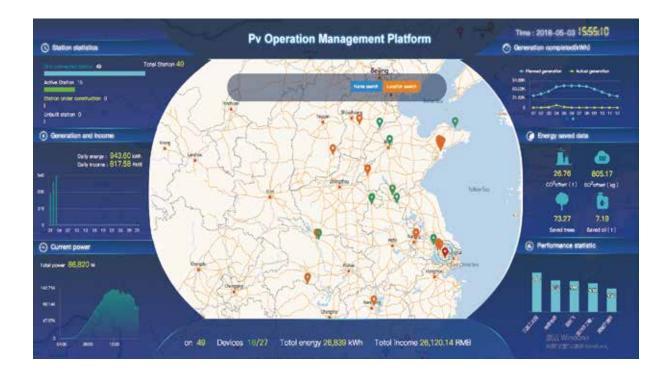
Efficient operation and maintenance management

Rapid operation and approval process Operation and maintenance order record and archive

Module functions	Extreme Edition	Ultimate Edition	Standard Edition	Basic Edition
Defect management	•	•	•	
sk management and smart appointment	•	•	•	•
Staff management	•	•	•	•
KPI management	•	•		
Alarm Management	•	•	•	•
Remote expert diagnosis	•	•		
Material Management	•	•	•	•
Two-ticket management	•	•		
Material inventory checking		٠		
Task statistics		•		
Operation and maintenance analysis	•			
Operation and maintenance App	•	•	•	•



Large-screen Operation & Maintenance platform



Comprehensive data display

Plant operation quantity and status Map mode display Quick data transfer

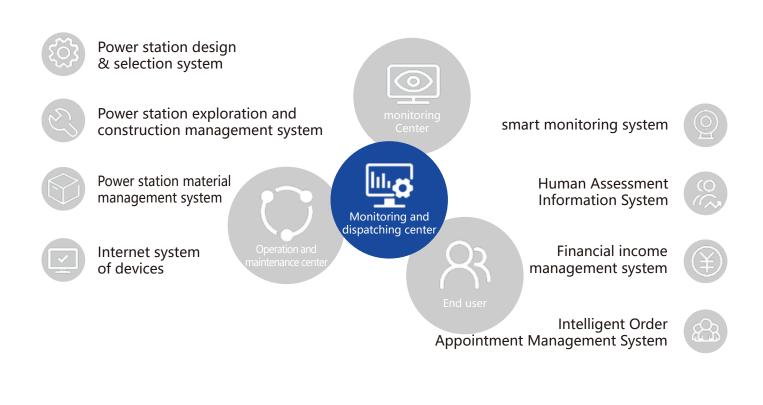
Power generation statistics Power station fault information feedback



Multi-data full-screen display Brief page introduction, easy to operate

Module functions	Extreme Edition	Ultimate Edition	Standard Edition	Basic Edition
Power Station Statistics	•	•	٠	
Power station overview	•	•	•	
Equipment Overview	٠	٠		
data statistics	•	•		
Map customization	•	•		

Customized software development services





Customized development of functions and interfaces based on customer requirements

Customized solution

customize monitoring solutions according to the power station sites

Independent deployment and data exclusivity

privatized and independent deployment, and exclusive big data monitoring

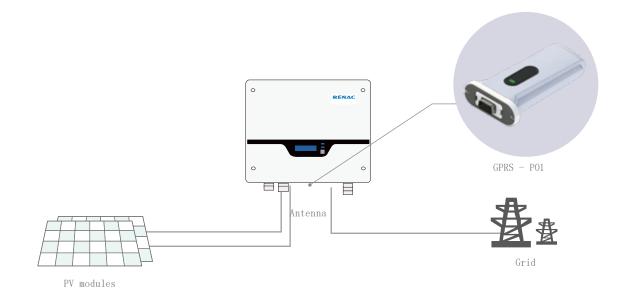
GPRS module (Stick type)



Product Highlights

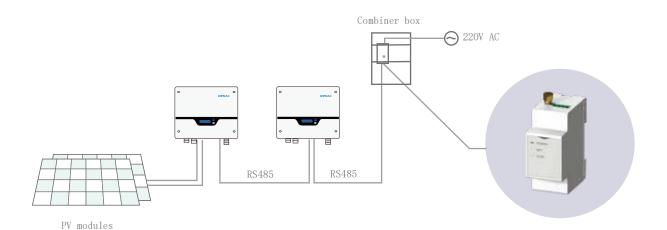
- ♥ GPRS communication, applicable for areas with operator networks
- ◎ Support cloud platform monitoring
- \bigodot Support remote modification of local parameters
- Reconnection when the network is unstable and restart when the connection fails, to ensure the device never disconnected
- \bigodot Industrial-grade originals and designs, able to work under the tempreture from -30° C to +85° C
- Support multiple communication protocols (standard/non-standard)
- igodot Compact module, easy to carry and install

• Application system schematic diagram •





• Application system schematic diagram •



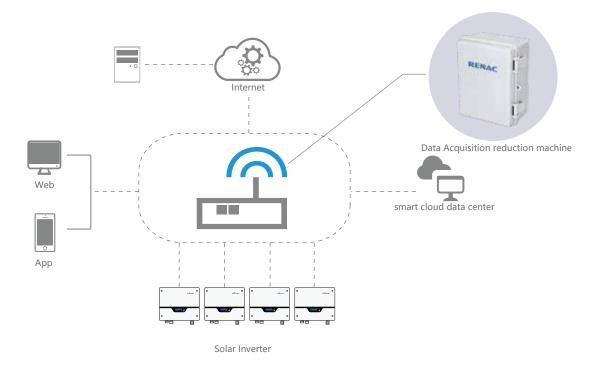
Data Acquisition reduction machine



Product Highlights

- \bigodot Built-in communication server and Web monitoring site
- ◎ local storage
- ◎ able to send info to remote server (RJ45/GPRS/WIFI)
- \bigcirc Built-in Linux operating system
- Support up to 4 strings of 485, and each string can connect up to 18 devices
- \bigcirc Compatible with 104 communication protocols

• Application system schematic diagram •



Central control projects and implementation services

From small household power generation systems, industrial photovoltaic power generation systems to large power stations, we are specialized in providing complete power plant monitoring and operation system solutions for all kinds of power generation systems, including pre-plans, program design, hardware and software matching and implementation services.



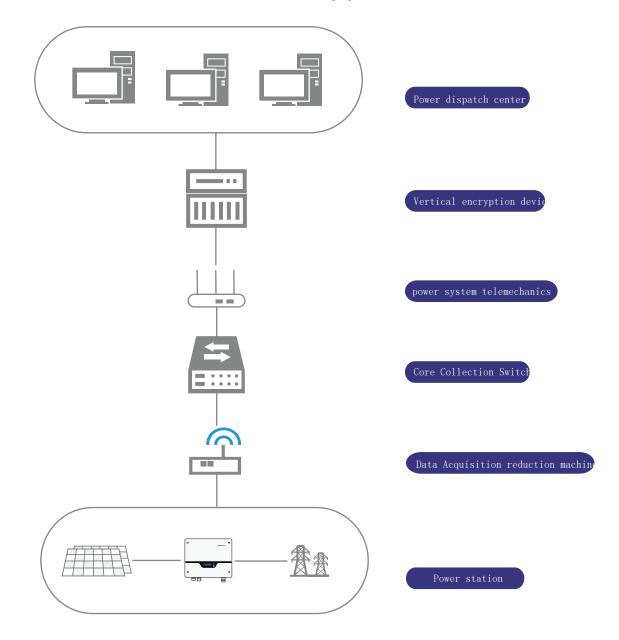
Central control project composition

Central Control Center

Realize the centralized management function of photovoltaic power stations and understand the operating status of each power station at real time

Station section

Realize station-side intelligent management, with online monitoring, fault diagnosis and alarm functions of on-site equipment



Project Reference



	2017	Kunshan		1.5MW
•	2017	Yangzhou		1.8MW
•	2017	Qixian,Kaifeng,Henan	4MW	
•	2017	Yucheng, Shangqiu, Henan	4MW	
	2017	Hengshui,Hebei		3MW
	2017	Xinpi,Jiangsu		15MW

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