





String-Transformerless

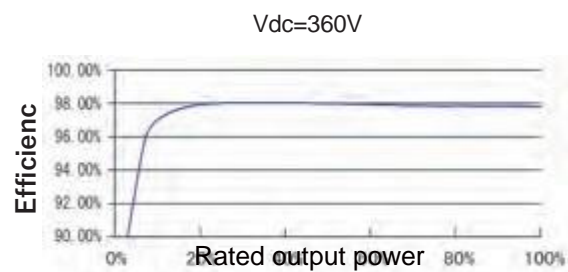
ASP-4/5/6/8/10KTLD



FEATURES

 Flexible Installation	 Efficient Conversion	 0~100% Active Power Adjustment	 Excellent Reliability
Small size, light weight, support manual installation, reduce user installation and maintenance cost Multi-communication interface: Rs485, GPRS(optional),Wifi (optional) DC breaker, easy to maintain and safe to use Convection without fan Digital DSP control technology	Transformerless, max. efficiency is up to 98.1%; Euro. efficiency is up to 97.5% Total current THD <2%	Active and passive anti-islanding protection Continuously adjustable active power (0~100%) function	CQC Golden Sun Certification, TUV Certification, SAA Certification, CE Certification

EFFICIENCY CURVE



TECHNICAL DATA

Model	4KTL	5KTL	6KTL	8KTL	10KTL
Input					
Max. DC input power	5200W	6500W	7200W	9200W	11500W
Max. DC input voltage	550V			580V	
Max. DC input current	2X13A		13/26A		26/13A
MPPT voltage range	80-550V				
Recommended MPP operating voltage	360V				
No.of MPPT	2				
Max. no. of strings per MPPT	1		1/2		2/1
Output					
Rated output power	4000W	5000W	6000W	8000W	10000W
Max. output power	4.4KVA	5.5KVA	6kVA	8KVA	10KVA
Max. output current	20A	25A	27A	34.8A	46A
Rated grid voltage	230V				
Grid voltage range	160~270Vac (adjustable)				
Rated grid frequency	50Hz/60Hz				
Grid frequency range	45~55Hz/55~65Hz				
THD	<2% (Under the rated power)				
Power factor	>0.99 (Under the rated power)				
DC current injection	<0.5% (Under the rated power)				
Max. efficiency	98.1%				
Euro. efficiency	97.5%				
Humidity range	0-95% non-condensing				
Cooling type	Air cooling		Fan		Air cooling
Temperature range	-25~+60°C				
Power consumption at night	< 1W				
Max. working altitude	4000m (Derating above 2000m)				
Display	LED/LCD/(optional)				
Communication interface	Wifi/RS485/GPRS(optional)				
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Output over voltage protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
Surge protection	Yes				
Grid monitoring	Yes				
Islanding protection	Yes				
Temperature protection	Yes				
Integrated DC switch	Optional				
Weight	12Kg		11Kg		18Kg
Protection class	IP66				
Standard					
Grid-connected standard	NB/T32004-2018; GB/T19964-2012				
Safety standard	NB/T32004-2018; IEC 62109-1/2				
Electromagnetic compatibility	IEC 61000-6-2/4				

String-Transformerless

ASP-8/10/12KTLC



FEATURES



Flexible design

Multi-communication interface: RS485, GPRS(optional), Wifi (optional)
DC breaker, easy to maintain and safe to use
Digital DSP control technology



Efficient conversion

Transformerless, max. efficiency is up to 98.7%; Euro. efficiency is up to 98.2%
Total current THD <2%
Three-level SVPWM control technology, increase DC voltage utilization



Grid friendly

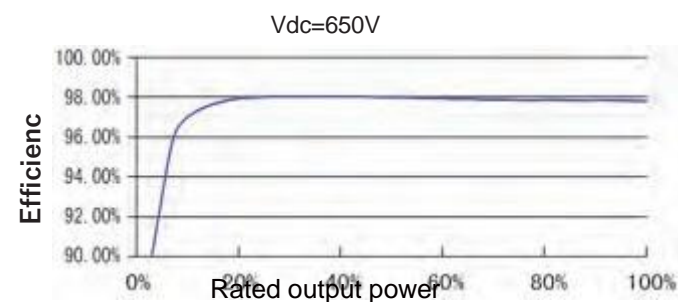
Adjustable reactive power, power factor from 0.8 leading to 0.8 lagging
Active and passive anti-islanding protection



Excellent qualities

CQC Golden Sun Certification, TUV Certification, SAA Certification, CE Certification

EFFICIENCY CURVE



TECHNICAL DATA

Model	8KTL	10KTL	12KTL
Input			
Max. DC input power	10400W	13000W	15600W
Max. DC input voltage		1100V	
Max. DC input current		13/13A	
MPPT voltage range		180-1000V	
Recommended MPP operating voltage		650V	
No.of MPPT		2	
Max. no. of strings per MPPT		1	
Output			
Rated output power	8000W	10000W	12000W
Max. output power	8.8kVA	11kVA	13.2kVA
Max. output current	13.3A	16.7A	20A
Rated grid voltage		400V	
Grid voltage range		310-480Vac	
Rated grid frequency		50Hz/60Hz	
Grid frequency range		45~55Hz/55~65Hz	
THD		<2% (Under the rated power)	
Power factor		>0.99 (Under the rated power) / Adjustable range: 0.8 leading~0.8 lagging	
DC current injection		<0.5% (Under the rated power)	

Max. efficiency	98.5%	98.6%	98.7%
Euro. efficiency	98%	98.2%	98.1%
Humidity range	0~95%, non-condensing		
Cooling type	Intelligent air cooling		
Temperature range	-25°C~60°C		
Power consumption at night	<1W		
Max. working altitude	4000m (Derating above 2000m)		
Display	LED indication / LCD display (Optional)		
Communication interface	Wifi/RS485/GPRS		

Protection	
DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Output over voltage protection	Yes
Insulation resistance monitoring	Yes
Residual current detection	Yes
Surge protection	Yes
Grid monitoring	Yes
Islanding protection	Yes
Temperature protection	Yes
Integrated DC switch	Yes

Dimensions (WxHxD)	427x510x204mm
Weight	15kg
Protection class	IP66
Grid-connected standard	NB/T 32004-2018; IEC61727
Safety standard	NB/T 32004-2018; IEC 62109-1/2
Electromagnetic compatibility	IEC61000-6-2/4

String-Transformerless

ASP-15/17/20/25/28KTLC



FEATURES



Flexible design

Multi-communication interface: RS485, GPRS(optional),Wifi (optional)
Intelligent forced air cooling
DC breaker, easy to maintain and safe to use
Digital DSP Control



Efficient conversion

Transformerless, max. efficiency is up to 98.8%; Euro. efficiency is up to 98.2%
Total current THD <2%
Three-level SVPWM control technology, increase DC voltage utilization



Grid friendly

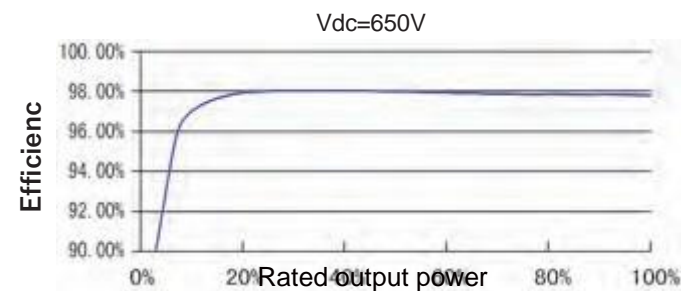
Adjustable reactive power, power factor from 0.8 leading to 0.8 lagging
Active and passive anti-islanding protection



Excellent qualities

CQC Golden Sun Certification, TUV Certification, SAA Certification, CE Certification

EFFICIENCY CURVE



TECHNICAL DATA

Model	15KTL	17KTL	20KTL	25KTL	28KTL
Input					
Max. DC input power	19500W	22600W	26000W	32500W	36400W
Max. DC input voltage			1100V		
Max. DC input current	13/26A		26/26A		
MPPT voltage range	180-1000V				
Recommended MPP operating voltage	650V				
No.of MPPT	2				
Max. no. of strings per MPPT	1/2		2		
Output					
Rated output power	15000W	17000W	20000W	25000W	28000W
Max. output power	16.5kVA	18.7kVA	22kVA	27.5kVA	30.8kVA
Max. output current	25A	28.3A	32A	42A	45A
Rated grid voltage	400V				
Grid voltage range	310-480Vac				
Rated grid frequency	50Hz/60Hz				
Grid frequency range	45~55Hz/55~65Hz				
THD	<2% (Under the rated power)				
Power factor	>0.99 (Under the rated power) / Adjustable range: 0.8 leading~0.8 lagging				
DC reverse-polarity protection	<0.5% (Under the rated power)				
Max. efficiency	98.7%		98.8%		
Euro. efficiency	98.2%				
Humidity range	0~95%, non-condensing				
Cooling type	Intelligent air cooling				
Temperature range	-25°C~60°C				
Power consumption at night	<1W				
Max. working altitude	4000m (Derating above 2000m)				
Display	LED indication / LCD display (Optional)				
Communication interface	Wifi/RS485/GPRS				
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Output over voltage protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
Surge protection	Yes				
Grid monitoring	Yes				
Islanding protection	Yes				
Temperature protection	Yes				
Integrated DC switch	Yes				
Mechanical					
Dimensions (WxHxD)	427x510x204mm				
Weight	18kg				
Protection class	IP66				
Grid-connected standard	NB/T 32004-2018; IEC61727				
Safety standard	NB/T 32004-2018; IEC 62109-1/2				
Electromagnetic compatibility	IEC61000-6-2/4				

String-Transformerless

ASP-30/33/36/40KTLC



FEATURES



Flexible design

Multi-communication interface: RS485, GPRS(optional),Wifi (optional)
DC breaker, easy to maintain and safe to use
Integrated functions of combiner box& DC lightning protection, reduce system cost for users



Efficient conversion

Transformerless, max. efficiency is up to 98.8%; Euro. efficiency is up to 98.3%
Total current THD <2%
Three-level SVPWM control technology, increase DC voltage utilization



Grid friendly

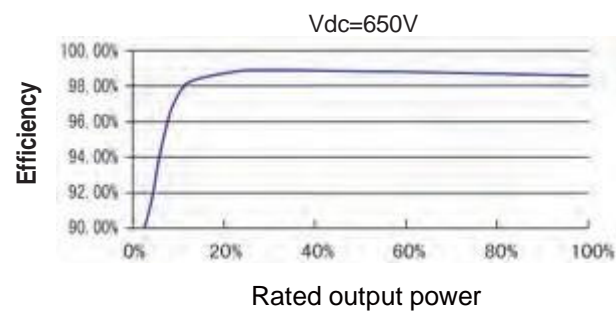
LVRT function
Adjustable reactive power, power factor from 0.8 leading to 0.8 lagging
Active and passive anti-islanding protection



Excellent qualities

CQC Gold Sun Certification, TUV Certification, SAA Certification, CE Certification

EFFICIENCY CURVE



TECHNICAL DATA

Model Name	30KTLC	33KTLC	36KTLC	40KTLC
Input				
Max. DC input power	36000W	39600W	43200W	48000W
Max. DC input voltage	1100V			
MPPT voltage range	250~1000V			
Max. DC input current	2X37.5A	2X37.5A	2X37.5A	2X44A
Recommended MPP operating voltage	650V			
No. of MPPT	2			
Max. no. of strings per MPPT	3/2		3	4
Output				
Rated output power	30000W	33000W	36000W	40000W
Max. output power	33KVA	36.3KVA	39.6KVA	44KVA
Max. output current	48A	53A	56A	63A
Rated grid voltage	400V			
Grid voltage range	310~480Vac			
Rated grid frequency	50Hz/60Hz			
Grid frequency range	45~55Hz/55~65Hz			
THD	< 2% (Under the rated power)			
Power factor	>0.99(under the rated power)/0.8 leading ~ 0.8 lagging			
DC current injection	< 0.5% (Under the rated power)			
System data				
Max. efficiency	98.7%	98.7%	98.8%	98.8%
Euro. efficiency	98.1%	98.2%	98.2%	98.3%
Humidity range	0-95% non-condensing			
Cooling type	Intelligent forced air cooling			
Temperature range	-25~+60℃			
Power consumption at night	< 1W			
Max. working altitude	4000m(Operation with derating above 2000m)			
Display	LED indicator /LCD displayer (optional)			
Communication interface	Wifi/RS485/GPRS(optional)			
Protection				
DC reverse-polarity protection				Yes
Short circuit protection				Yes
Output over current protection				Yes
Output over voltage protection				Yes
Insulation resistance monitoring				Yes
Residual current detection				Yes
Surge protection				Yes
Grid monitoring				Yes
Islanding protection				Yes
Temperature protection				Yes
Integrated DC switch				Yes
Mechanical data				
Dimensions (WxHxD)	517x516x214mm			
Weight	34Kg			
Protection class	IP66 (outdoor)			
Standard				
Grid-connected standard	NB/T32004-2018; IEC61727			
Safety standard	NB/T32004-2018; IEC 62109-1/2			
Electromagnetic compatibility	IEC 61000-6-2/4			

String-Transformerless

ASP-50/60KTLC



FEATURES



Flexible design

Multi-communication interface: RS485, GPRS(optional), Wifi (optional)
DC breaker, easy to maintain and safe to use
Integrated functions of combiner box& DC lightning protection, reduce system cost for users



Efficient conversion

Transformerless, max. efficiency is up to 98.9%; Euro. efficiency is up to 98.5%
Total current THD <2%
Three-level SVPWM control technology, increase DC voltage utilization



Grid friendly

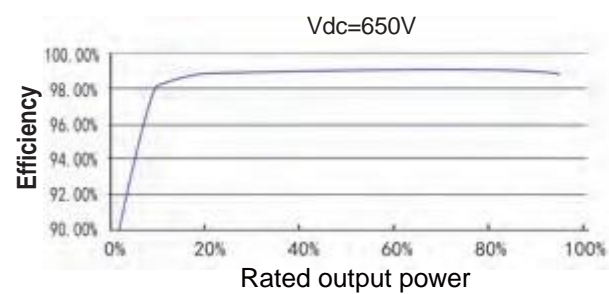
LVRT HVRT function
Adjustable reactive power, power factor from 0.8 leading to 0.8 lagging
Active and passive anti-islanding protection
Continuously adjustable active power(0-100%)function



Excellent qualities

CQC Golden Sun Certification, TUV Certification, SAA Certification, CE Certification

EFFICIENCY CURVE

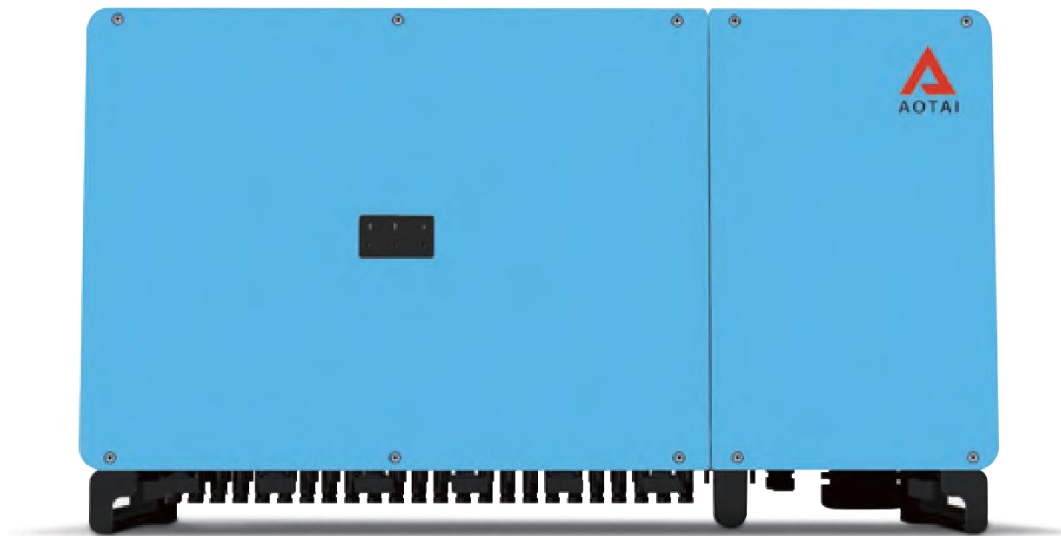


TECHNICAL DATA

Model Name	50KTLC	60KTLC
Input		
Max. DC input power	65000W	78000W
Max. DC input voltage	1100V	
Max. DC input current	44/44/44A	
MPPT voltage range	250~1000V	
Recommended MPP operating voltage	650V	
No. of MPPT	3	
Max. no. of strings per MPPT	4/4/4	
Output		
Rated output power	50000W	60000W
Max. output power	55KVA	66KVA
Max. output current	80A	96A
Rated grid voltage	400V	
Grid voltage range	310~480Vac	
Rated grid frequency	50Hz/60Hz	
Grid frequency range	45~55Hz/55~65Hz	
THD	< 2% (Under the rated power)	
Power factor	>0.99(rated power) /0.8 leading ~ 0.8 lagging	
DC current injection	< 0.5% (Under the rated power)	
System data		
Max. efficiency	98.7%	98.9%
Euro. efficiency	98.3%	98.5%
Humidity range	0-95% non-condensing	
Cooling type	Intelligent forced air cooling	
Temperature range	-25~+60°C	
Power consumption at night	< 1W	
Max. working altitude	4000m(Operation with derating above 3000m)	
Display	LED/LCD(optional)	
Communication interface	RS485/Wifi/GPRS(optional)	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Output over voltage protection	Yes	
Insulation resistance monitoring	Yes	
Residual current detection	Yes	
Surge protection	Yes	
Grid monitoring	Yes	
Islanding protection	Yes	
Temperature protection	Yes	
Integrated DC switch	Yes	
Mechanical data		
Dimensions (WxHxD)	655x550x282mm	
Weight	45Kg	
Protection class	IP65	
Standard		
Grid-connected standard	NB/T32004-2018; GB/T19964-2012	
Safety standard	NB/T32004-2018	
Electromagnetic compatibility	IEC 61000-6-2/4	

String-Transformerless

ASP-100/110KTLC



FEATURES



Flexible design

Multi-communication interface: RS485, GPRS(optional),Wifi (optional)
DC breaker, easy to maintain and safe to use
Integrated functions of combiner box& DC lightning protection, reduce system cost for users



Efficient conversion

Transformerless, max. efficiency is up to 98.7%; Euro. efficiency is up to 98.3%
Total current THD <2%
Three-level SVPWM control technology, increase DC voltage utilization



Grid friendly

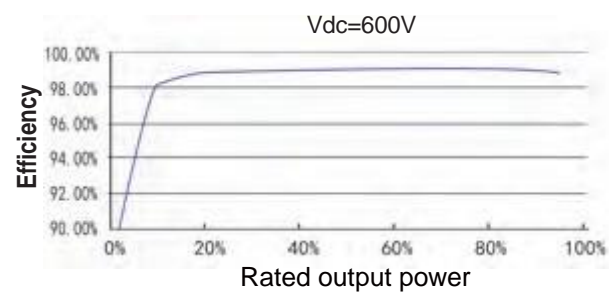
LVRT HVRT function
Adjustable reactive power, power factor from 0.8 leading to 0.8 lagging
Active and passive anti-islanding protection
Continuously adjustable active power(0-100%)function



Excellent qualities

CQC Golden Sun Certification, TUV Certification, SAA Certification, CE Certification

EFFICIENCY CURVE



TECHNICAL DATA

Model Name	100KTLC	110KTLC
Input		
Max. DC input power	150KW	165KW
Max. DC input voltage	1100V	
Max. DC input current	30AX10	
MPPT voltage range	200~1000V	
Recommended MPP operating voltage	600V	
No. of MPPT	10	
Max. no. of strings per MPPT	2	
Output		
Rated output power	100KW	110KW
Max. output power	110KVA	121KVA
Max. output current	158.8A	174.6A
Rated grid voltage	400V	
Grid voltage range	310~480Vac	
Rated grid frequency	50Hz/60Hz	
Grid frequency range	45~55Hz/55~65Hz	
THD	< 2% (Under the rated power)	
Power factor	>0.99(rated power) /0.8 leading ~ 0.8 lagging	
DC current injection	< 0.5% (Under the rated power)	
System data		
Max. efficiency	98.7%	98.7%
Euro. efficiency	98.3%	98.3%
Humidity range	0-95% non-condensing	
Cooling type	Intelligent forced air cooling	
Temperature range	-25~+60°C	
Power consumption at night	< 1W	
Max. working altitude	4000m(Operation with derating above 3000m)	
Display	LED/LCD(optional)	
Communication interface	RS485/Wifi/GPRS(optional)	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Output over voltage protection	Yes	
Insulation resistance monitoring	Yes	
Residual current detection	Yes	
Surge protection	Yes	
Grid monitoring	Yes	
Islanding protection	Yes	
Temperature protection	Yes	
Integrated DC switch	Yes	
Mechanical data		
Dimensions (WxHxD)	1051x660x363mm	
Weight	89Kg	
Protection class	IP65	
Standard		
Grid-connected standard	NB/T32004-2018; GB/T19964-2012	
Safety standard	NB/T32004-2018	
Electromagnetic compatibility	IEC 61000-6-2/4	

Monitoring - Information Collector

GPRS/Wifi/NET RTU GPRS/Wifi RTU-USB



PRODUCT INTRODUCTION

Information collector is used for data collection and monitoring of solar inverters, combiner box and environment monitor in PV power stations. This device has RS485/Ethernet, and USB data communication interface. This makes it compatible with many equipments and reduce system cost.

TECHNICAL DATA

Model Name	GPRS/WIFI/NET RTU	GPRS/WIFI RTU-USB
Communication		
Inverter communication	RS485	
PC communication	-	
Server	GPRS/ WiFi/ Ethernet	GPRS/ WiFi
Max. number of connections		
RS485 terminal	32	1
Max. communication range		
RS485	1200m	0m
Ethernet	-/-/ 100m	-
Wireless (open field)	unlimited/ 20m/ -	unlimited/ 20m
Power supply		
Power module	AC 220V to DC 12V	
Input voltage	DC12V	DC12V
Power consumption	1W(avg)/ 3W(max)	
Environmental conditions		
Ambient temperature	-20~+60°C	
Humidity	0~95%,non-condensing	
Other data		
Dimensions (WxHxD)	145x72x28mm	79x59x26mm
Weight	390g	10g
Protection class	IP20	IP65(after installation)
Installation	Wall bracket, tabletop	On the inverter
Language versions–software/manual	Chinese, English	

Monitoring – ATSolar APP

ATSolar APP



FEATURES

- Delicate interface, precise data, easy to operate, download and install, real-time monitoring, data synchronism
- 24-hour monitoring
- Real-time update of weather forecast
- Rich data output interfaces, support Android, IOS
- Low maintenance cost
- Periodic refresh of dynamic information
- Power station information sharing function

PRODUCT INTRODUCTION

ATSolarAPP is intelligent terminal for PV power station monitoring and management person. It help user master PV power station running status at anytime and anywhere, realize remote data monitoring of PV power station, ensure convenient management and monitoring timeliness. System displays PV power station running data by visual table, includes power station power generation, benefit, CO2 emission reduction benefit, equipment running status, equipment real-time data, history data query, power generation comparison, equipment performance comparison. As fashion and intelligent application, it can let user demonstrate his PV power station at any occasion, user has intuitive feeling, enhance user confidence.

Monitoring-Remote Monitoring System

AT Solar Info PV power station monitoring system



FEATURES

Inverter management Nobody monitoring needs, 7X24h stable running Manage grid-connected inverter, add data of newly communication net connected inverter to management system by add function, also can move current inverter data output of management system by delete function.	Real-time system monitoring Information monitoring function real-time monitor system, display system running parameter, know system running status precisely by displayed information.	Precise data statistic This function can make statistic history data of inverter on a certain time range, and output by Excel format Information collection and management of combiner box, DC distribution cabinet, inverter, transformer, etc.	Detailed history tracking Take out system data in a certain time duration, and display in curve type, user can know system running efficiency	Precise design Friendly interface, easy to operate, integrated power station monitoring, running, management, provide better operation experience

PRODUCT INTRODUCTION

This system includes inverter, communication network and upper computer, has advantages like high real-timeliness, high reliability, simple wiring and remote monitoring and management. With communication technology, auto-control technology, computer technology, to realize PV power station monitoring, running and management functions, provide economic, reliable and safe solution for PV power station intelligent, automating, unmanned management. This APP suits for all kinds of PV power station, provides PV integrated monitoring and running program, realize complete real-time monitoring, control and management for PV power station.

Login <http://aotaicloud.com/ATSolarInfo/>, to realize real-time monitoring and management for your power station.

AOTAI Projects Reference





35 MW

 China



30 KW

 Vietnam



10 KW

 Pakistan



5 KW

 Vietnam



180 KW

 Pakistan



5 KW

 Argentina



5 KW

 Argentina



5 KW

 Argentina



20 MW

 China



30 MW

 China



6 MW

 China



2 MW

 China



200 KW

 China



300 KW

 China

KW

China



500



