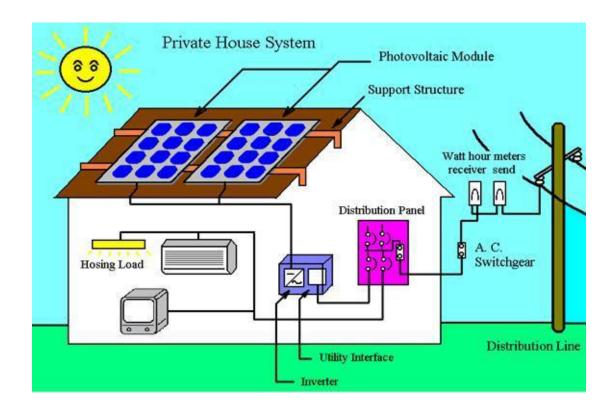
PV Grid-tied 4~5KWp Power System Standardized Configuration Scheme



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4.51KWp 并网光伏发电系统的评估 (使用单晶硅组件)

The Estimation of A 4.51KWp Grid-tied PV Power System w/i Mono-crystalline Solar Module

(1) 系统配置一览表 (Table of System Standard Components):

Item	Description	Qty.	Picture of Item
PV Module	TD-410MC-108HC, mono-crystalline, 410watt w/i MC4 connectors and leading PV cables;	11 Pcs.	
PV Rack	PV panel mounting bracket on sloping roof	1 Set	
	Hook		
	Guiding Rail		
MC4 Connector	Rated voltage: 1500V DC (IEC) /800V DC(UL); Rated current: 30A; Ambient Temp.: -40~85°C; (IEC) Protection Grade: IP67; Male /Female;	3 Pairs	
DC Extension Cable	MC4 solarline 2 (latching) extender cable of 2.5mm², 15m length, male /female, 2Pcs. ×15.0m /Pcs.;	2 Pcs.	
PV-side Disconnector Box	With DC circuit breaker, DC Surge Protection Device and DC Rated Fuses; Waterproof Grade: IP65	1 Pcs.	

DC Cable from Disconnector Box to Inverter	BV/BVR1*4mm²,2*10m length; plus one pair of MC4 Connector;	1 Set.	Z.RBVR多胞软化
PV Grid-tied Inverter	MG4.6KTL	1 Pcs.	5
AC Grid-tied Box	single-phase grid connection	1 Pcs.	BU-1000
合计价格 Grand-total Price			

Remarks:

- ① The PV panel of this system, if being fixed on your rooftop, could occupied an area of about 22m².
- ② To pursue a high-efficiency of this power generation system, when in installation, please pay attention to keeping the consistency of all PV module' level & orientation, so that to avoid a mismatch of the PV modules.
- ③ With high-quality and efficiency of our components, you could only positively expected an average annual output of solar electricity to be at a quite high level; If you use unqualified components, it may let you down.
- For the confirmation of ordering PV mounting rack and accessories, you need to have a further discussion with
 our salesman to clear necessary information.

4.92KWp 并网光伏发电系统的评估 (使用单晶硅组件) The Estimation of A 4.92KWp Grid-tied PV Power System w/i Mono-crystalline Solar Module

(1) 系统配置一览表(Table of System Standard Components):

Item	Description	Qty.	Picture of Item
PV Module	TD-410MC-108HC, mono-crystalline, 410watt w/i MC4 connectors and leading PV cables;	12 Pcs.	
PV Rack	PV panel mounting bracket on sloping roof	1 Set	

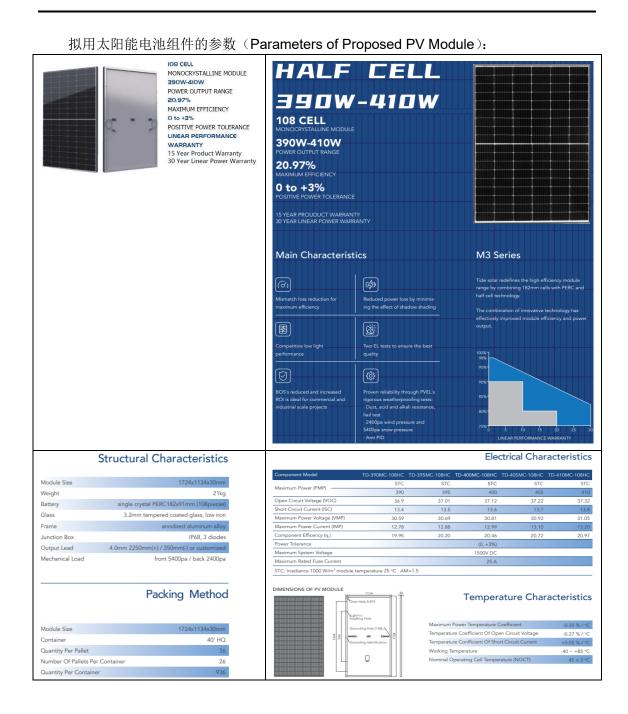
	Hook		
	Guiding Rail		
MC4 Connector	Rated voltage: 1500V DC (IEC) /800V DC(UL); Rated current: 30A; Ambient Temp.: -40~85°C; (IEC) Protection Grade: IP67; Male /Female;	3 Pairs	
DC Extension Cable	MC4 solarline 2 (latching) extender cable of 2.5mm², 15m length, male /female, 2Pcs. ×15.0m /Pcs.;	2 Pcs.	
PV-side Disconnector Box	With DC circuit breaker, DC Surge Protection Device and DC Rated Fuses; Waterproof Grade: IP65	1 Pcs.	
DC Cable from Disconnector Box to Inverter	BV/BVR1*4mm²,2*10m length; plus one pair of MC4 Connector;	1 Set	スR-BVR多股较スR-BV単心硬料
PV Grid-tied Inverter	MG5KTL	1 Pcs.	
AC Grid-tied Box	single-phase grid connection	1 Pcs.	SPLE-1000
合计价格 Grand-total Price			

Remarks:

- $\textcircled{1} \ \, \text{The PV panel of this system, if being fixed on your rooftop, could occupied an area of about 24} m^2.$
- ② To pursue a high-efficiency of this power generation system, when in installation, please pay attention to keeping the consistency of all PV module' level & orientation, so that to avoid a mismatch of the PV modules.

- ③ With high-quality and efficiency of our components, you could only positively expected an average annual output of solar electricity to be at a quite high level; If you use unqualified components, it may let you down.
- **(4)** For the confirmation of ordering PV mounting rack and accessories, you need to have a further discussion with our salesman to clear necessary information.

以上各设计系统中拟使用的系统主要部件的参数一览表 List of Parameters for Main Components in the Above System Designed



拟用光伏汇流箱的参数(Parameters of PV Sting DC Combiner Box):

Product Advantages:

High Reliability

With DC FUSE;

With DC Surge Protection Device;

With DC circuit breaker or DC load isolation switch;

· Strong Adaptability

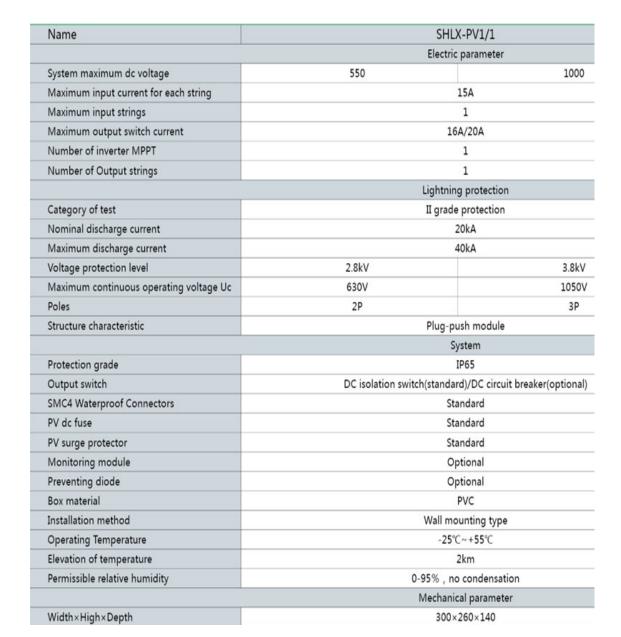
IP65 design, waterproof, anti dust and anti ultraviolet; Strict test for high and low temperature, used widely;

The simple installation, the simplified system wiring;

the convenient wiring;

The box body is made of cold rolled steel and other metal materials;

TECHNICAL PARAMETERS





拟用太阳能并网逆变器的参数(Parameters of Proposed PV On-grid Inverter):

		Si	ingle-phase				
	Model		3kW	4kW	4.6kW	5kW	5.5kW
	Max. DC voltage (V)		500	600	600	600	600
Input	Starting voltage (V)		120	120	120	120	120
	MPPT voltage(V)		120-450	125-550	125-550	125-550	125-550
	Operation voltage (V)		210-400	240-500	240-500	250-500	250-500
	MPPT/strings per MPPT		1/2	1/2	1/2	1/2	1/2
(DC)	Max. DC power (W)		3300	4000	4600	5000	5500
	Max. input current (A)		15×1	16×1	18×1	20×1	23×1
	Isc PV		16.5	18	20	22	25
	Max inverter backfeed current to the array(A)		0	0	0	0	0
	DC switch	_	Optional				
	Max output power		3000	3680	4200	4600	5000
	Voltage(V)/ frequency(Hz)	180~270Vac, 50Hz(47~51.5Hz) / 60Hz(57~61.5Hz) VD	E0126& AR- 1、TF3.2.1、	N4105, AS47	77.2/AS4777	3, CQC, G8	3-2, G59-3
	Max. AC current (A)	, 0101	13	16	18.3	20	24
Output	Maximum output overcurrent protection	·	22.0	33.5	37.9	40.2	40.2
(AC)	Maximum output fault current	40A,19.5ms			104A,	37.2ms	l
	AC inrush current	Less than 10 A Less than 2 A					
	Power factor	-0.9~+0.9 (adjustable)					
	Harmonic distortion	< 3% (rated power)					
	Cooling	Natural cooling					
	Maximum efficiency		97.60%	97.60%	97.40%	97.50%	97.50%
	European efficiency		96.50%	96.50%	96.50%	96.50%	96.50%
	MPPT efficiency	99.9%					
	Protection degree	IP65					
	Power consumption	< 1W					
	Isolation mode	Transformerless					
	Protective class	VI					
	Overvoltage category	AC:III,PV:II					
	inverter topology	Non-isolated					
System -	Pollution degree	3					
	Operation temperature	(-25℃~+60℃), derate after 45℃					
	Relative humidity	4~100%, Condensation					
	Max. altitude(m)	<2000 (derate if the altitude>2000)					
	Displaying	LED/ LCD, backlit display					
	System language	English, Chinese, German, Dutch					
	Communication	RS485 (standard); handheld keypad; WiFi (optional)					
	DC terminal	BC03A/ BC03B					
	Noise dB(A)	≤25					
		Wall installation					
	Installation mode	Wa	all installation				