Solar Water Pump System

Sunshine-PV Company

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FIFE

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FTF

FFE

新能光電科技股份有限公司



Outline

Solar water pump system components

System 1

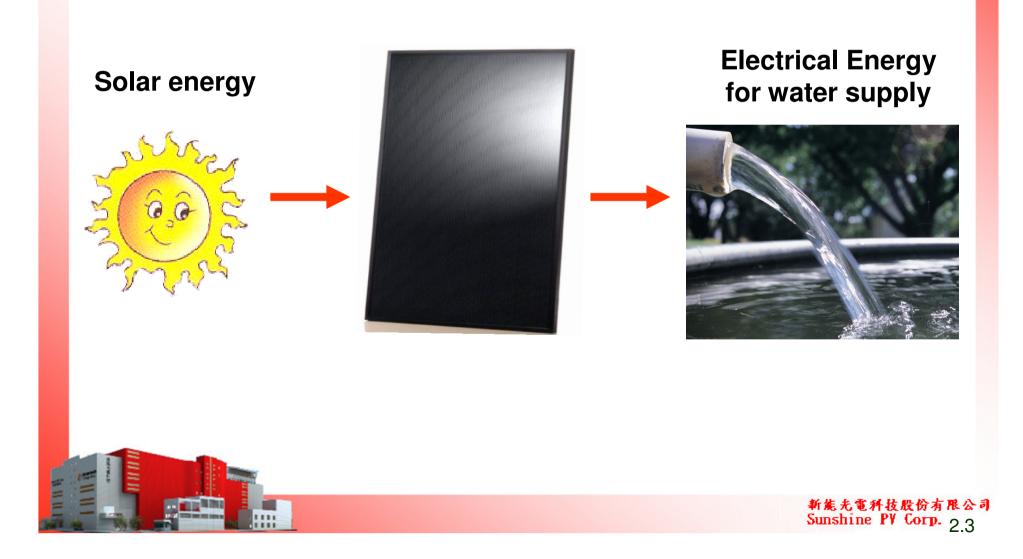
- System 2
- System 3

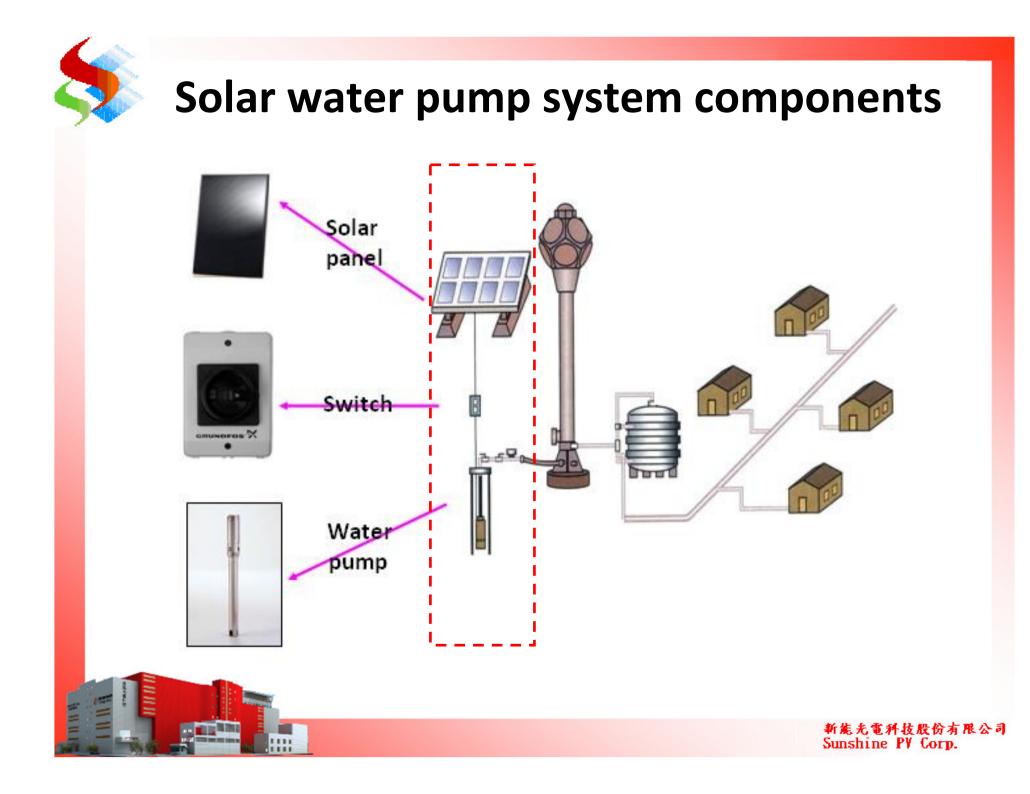






Conversion of Energy







11 11 11

Solar panel : CIGS





SUNSHINE

Physical Specification

SUNSHINE CIGS SERIES

WORLD'S LARGEST CIGS THEN FILM MODULE Certified accelling to the database of 8000466 and 8000788 In others an additional power solution with high product soluting and part affinences

Electrical Characteristics "Neniari for Continue (191)

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Tunifule CCI Seles	And in case of the local division of the loc		and the second se	the state of the s	and the second se
Peaker Output (Prrgs)	TIDAY	12040	10000	1.0000	. toomy
Max. Press Voluge (Vryg)	34.5V	57.69V	98.87V	644	66.49
Mail: Protest Current (Impail	1.54A	2.134	3.37A	2.34	2.25A
Open Drowt Voltage Mix)	#5.8V	85.25V	BT ARV	30.674	10.07V
Mort Casuel Careert (Inc)	2.45A	2.424	2.62A	2.354	2.554
Max. System Voltage	1080V	1000V	1000V	1000V	1000V
Power Tolerance			=1-6%		
Maximum System Voltage	1000Vdc (IEC), 600 Vdc (UA.)				
Operating Temperature	40C to 85C				

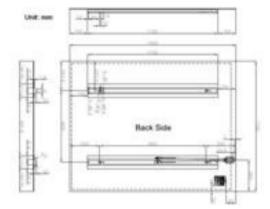
Limited Warranty

Product Gasepartee

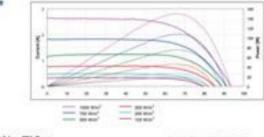
Warrenty of the Materials and the Blockmanning for 10 years. Parmer Gearantian

MPs of the minimal rated Rower Output for 18 years after shipment. AIPs of the minimal rated Rower Output for 39 years after shipment.

Mechanical Characteristics	
549	1106min x 1400min
Depth.	2.7mm
Merght befords rail, we'r back rail)	33hg/28.5kg
Type of Frame	what rai, we back rai
Pront Caver	Tempered glass
Back Cover	Picet glass
Encapedation	Glass / Etik./ Glass
SnewWind LowE (IBC)	2400Ps (w/s back raf), 5400Ps (w/ back raf)
Junction box, Connector	IF 68. MC-4 compatible
Dutput Cable	34.4MG (2.5HW)1
Cell Type	152 CIGS Cells
Safety Class	
five Rating	Class C



IV Curve



Bunshine PV	Corp.
Tel: +880.3.527.48	44 ····
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No. 18-3 Southplic M	Rel millionha Ind Park, Talwan, 38353 R.O.C

新慶氏電石総合合有限会可 相比 05-021-4899 単元 05-027-4877 1.me2 selectburnehise parcem 2005/1817年後回の1818年11月後日の第1日日



Water pump



•Wide voltage range

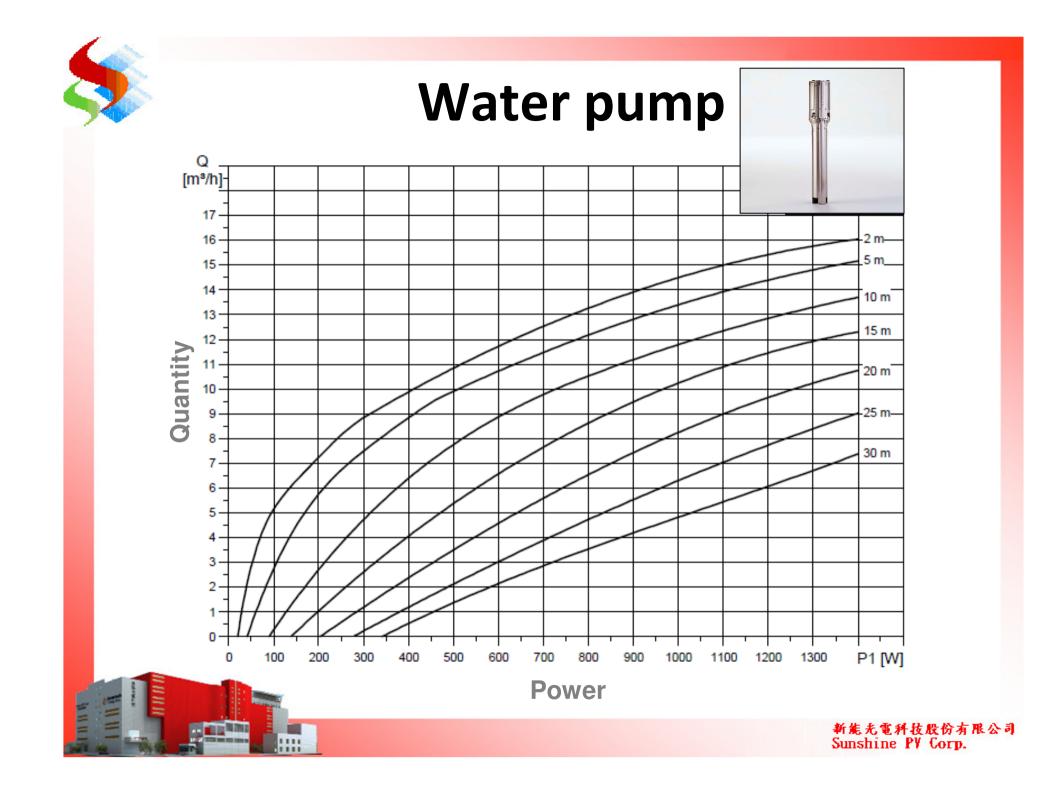
- •30-300 VDC
- •90-240 VAC
- High starting torque
- $\bullet MPPT \ (\, {\sf Max \ Power \ Point \ Tracking } \,)$

Integrated protection against:

- Polarity mistakes
- •Overtemperature
- •Over- and undervoltage
- Overload
- •Dry-running









Solar Water-Pump System1

	Description/content
Solar panel	CIGS Thin Film – 130Watt* 3 pcs
Water pump	solar pump - pump head: 0 – 30 m - Rated voltage dc: 30-300VDC - Rated voltage ac: 90-240VAC - Rated Current: 8.4A switch box - 1 set drop cable , RD TML-B 3G2.5mm2 (15-meters) wire 6*19/7.1, 1.4404 (20m) array to controller wire kit (MC4) cable-termination set 3*1.5-6.0mm2 EU set of cable clips
Rack	Aluminum extrusion rack for 3pcs CIGS thin film DC cable * 10 m

• This system will yield approx :

(1) 6300 liters per hour @ a 10m head

Or (2) 400 liters per hour @ a 30m head



Solar Water-Pump System2

	Description/content
Solar panel	CIGS Thin Film – 130Watt* 6 pcs
Water pump	solar pump - pump head: 0 – 30 m - Rated voltage dc: 30-300V - Rated voltage ac: 90-240VAC - Rated Current: 8.4A switch box - 1 set drop cable , RD TML-B 3G2.5mm2 (15-meters) wire 6*19/7.1, 1.4404 (20m) array to controller wire kit (MC4) cable-termination set 3*1.5-6.0mm2 EU set of cable clips
Rack	Aluminum extrusion rack for 6pcs CIGS thin film DC cable * 10 m

• This system will yield approx :

(1) 10500 liters per hour @ a 10m head

Or (2) 3500 liters per hour @ a 30m head



Solar Water-Pump System3

	Description/content		
Solar panel	CIGS Thin Film – 130Watt* 9 pcs		
Water pump	solar pump - pump head: 0 – 30 m - Rated voltage dc: 30-300V - Rated voltage ac: 90-240VAC - Rated Current: 8.4A switch box - 1 set drop cable , RD TML-B 3G2.5mm2 (15-meters) wire 6*19/7.1, 1.4404 (20m) array to controller wire kit (MC4) cable-termination set 3*1.5-6.0mm2 EU set of cable clips		
Rack	Aluminum extrusion rack for 9pcs CIGS thin film DC cable * 10 m		

• This system will yield approx :

(1) 12800 liters per hour @ a 10m head

Or (2) 5900 liters per hour @ a 30m head









Kyrgyzstan

Malaysia - Dengkil





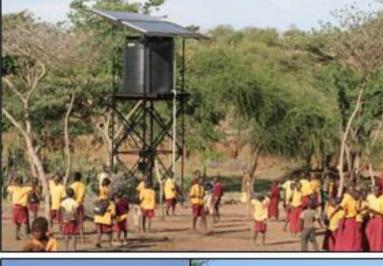
















Philippines





Cambodia







Thailand - Uthai Thani



Thailand (Private homes)













Remote community, Kenya



Children's home, Uganda



Outback station, Australia



Small villages, Kyrgyzstan



Game park, Namibia



Irrigation in the Alentjo



National park, Austria



Energy independence, India



Vineyard, Spain



Indian tribe, Brazil



Cattle farm, Australia



Cattle ranch, California







Corporate Philosophy

A Partner You Can Count On!!

As words spread in the market by its business partners since day one, "Sunshine, they do what they say and they say what they do". Indeed, time changes, but Sunshine never changes this commitment.







Thank you

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