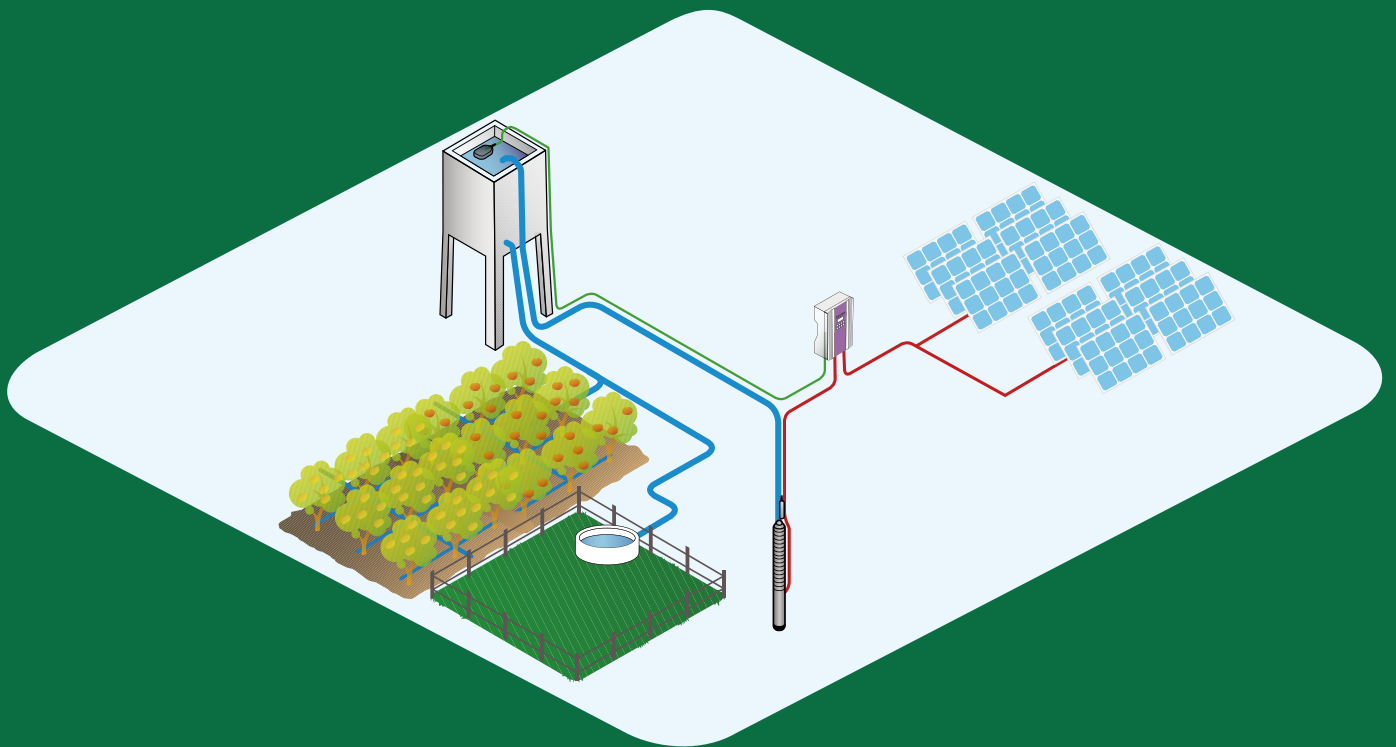


ALL IN ONE SOLAR SYSTEM

PHOTOVOLTAIC WATER PUMP SYSTEM KIT



A large array of blue solar panels is mounted on a structure in a desert environment. The panels are arranged in a grid pattern and are tilted slightly towards the sun.

SOLAR PUMPING SYSTEM

1KW-2KW-3KW-5KW-10KW-20KW



Product Description

Solar powered water pumping is one of the most practical applications of solar energy on the market today. Solar pumping systems are reliable stand-alone PV systems that require no fuel and very little attention to operate and maintain.

From small scale agricultural projects to large scale municipality water projects, Sunpal Power offers solar water pumping systems that fit every water pumping application. Designed to be ultra-affordable and easy to install while still being engineered to be robust with low maintenance. Water pumping has never been so environmentally friendly.

Product Benefits

- Provide clean water distribution with only solar energy
- No moving parts with minimal maintenance
- Can be installed in any location including

Common Application

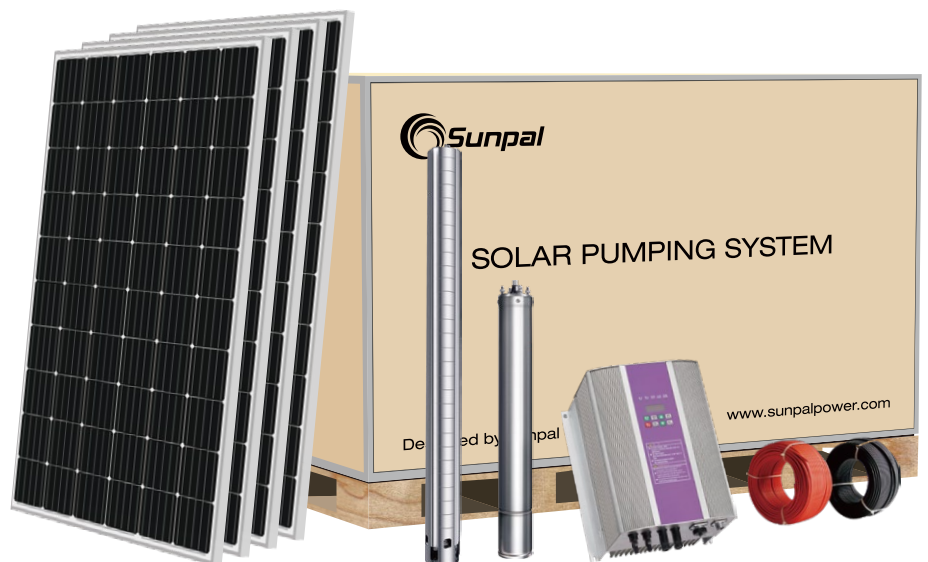
- Livestock
- Agricultural irrigation
- Wildlife irrigation systems
- Waste water treatment
- Homes, farms, ranches, and cabins
- Villages, businesses, and communities

SOLAR PUMPING SYSTEM

PV Kits

Include

- Solar modules
- Water pump & Inverter
- Custom mounting system
- Float switch
- DC disconnects
- PV, water pump wiring harnesses
- Wire management kits



PRODUCT MODEL	SPIHP-DC	SP2HP-DC	SP3HP-DC	SP5HP-AC	SPI0HP-AC	SP20HP-AC
PV System Size Nominal (kWp)	0.84	2.24	2.8	5.6	11.2	22.4

PV MODULE SPECIFICATIONS (*Mono)

Power (W)	280					
Vmp (V)	31.8					
Voc (V)	38.8					
Isc (A)	9.33					
Imp (A)	8.81					
Dimensions (L x W x H) (mm)	1650*992*35					
PV Module weight (kg)	18.6					
Certifications	TUV (IEC 61215 & IEC 61730) / UL (UL 1703)					

*Polycrystalline PV modules also available up on request

INVERTER SPECIFICATIONS

Inverter Type	DC			AC		
Inverter Size (kW)	0.6	1.2	1.8	5.5	7.5	15
Max DC Power (W)	1	2.4	3	8	11	22
Max DC Voltage (V)	150	200	200	850		
MPPT Voltage Range (V)	60 - 120	120 - 160	120 - 160	500 - 700		
Number of MPPTS	1			1		
Max Output Current (A)	13	11	16	13	18	30
AC Nominal Voltage / Voltage Range (V)	N / A			380		
AC Grid Frequency Range (Hz)	N / A			50		
Number of Phases	N / A			3		
Dimensions (W x H x D) (mm)	202 x 244 x 146	202 x 284 x 146	202 x 284 x 146	425 x 415 x 205		
Inverter Weight (kg)	3.6	4.3	4.3	9.5	14.5	15
Certifications	EN 61000-6-3:2007 / EN 61000-6-1:2007 / IEC 61000-4-2 / IEC 61000-4-3 / EN 50178:1997					
Warranty	3					

*WATER PUMP SPECIFICATIONS

Pump Power (kW)	0.6	1.1	1.5	4	5.5	13
**Daily Water Flow (m ³)	2 - 18	18 - 33	34 - 76	40 - 70	80 - 160	700 - 1100
**Water Head Range (m)	80 - 18	43 - 22	34 - 16	119 - 79	79 - 43	22 - 18
Pump Outlet - Hose Diameter (mm)	25	40	50	50	65	150
Well Diameter (mm)	125			125	200 - 250	200 - 250
AC Input Voltage (VAC)	N / A			380		
AC Frequency (Hz)	N / A			50		
Dimensions (L x W) (mm)	560 x 100	830 x 100	889 x 100	1436 x 100	1652 x 133	1652 x 133
Pump Material	Screw and Body AISI 304					
Certification Standards	CE - EN 61000-6-3:2007+A1:2011 / EN 61000-6-1:2007 / EN 60335-1:2012 / EN 60335-2-41:2003 / +A1:2004+A2:2010					
Warranty (Years)	1					

*Flow based on 6kWh/m²/day **Other Pump flow and head variations available upon request

BOS

DC Disconnect	1	2	2	1	2	4
*PV Wire Harness - 4mm ² (m)	100	200	200	100	200	400
*Pump Power Cable (m)	50	75	100	100	100	150
*Ground Wire - 4mm ² (m)	50	50	50	50	100	100

*Extra wire is available up request

SYSTEM LAYOUT

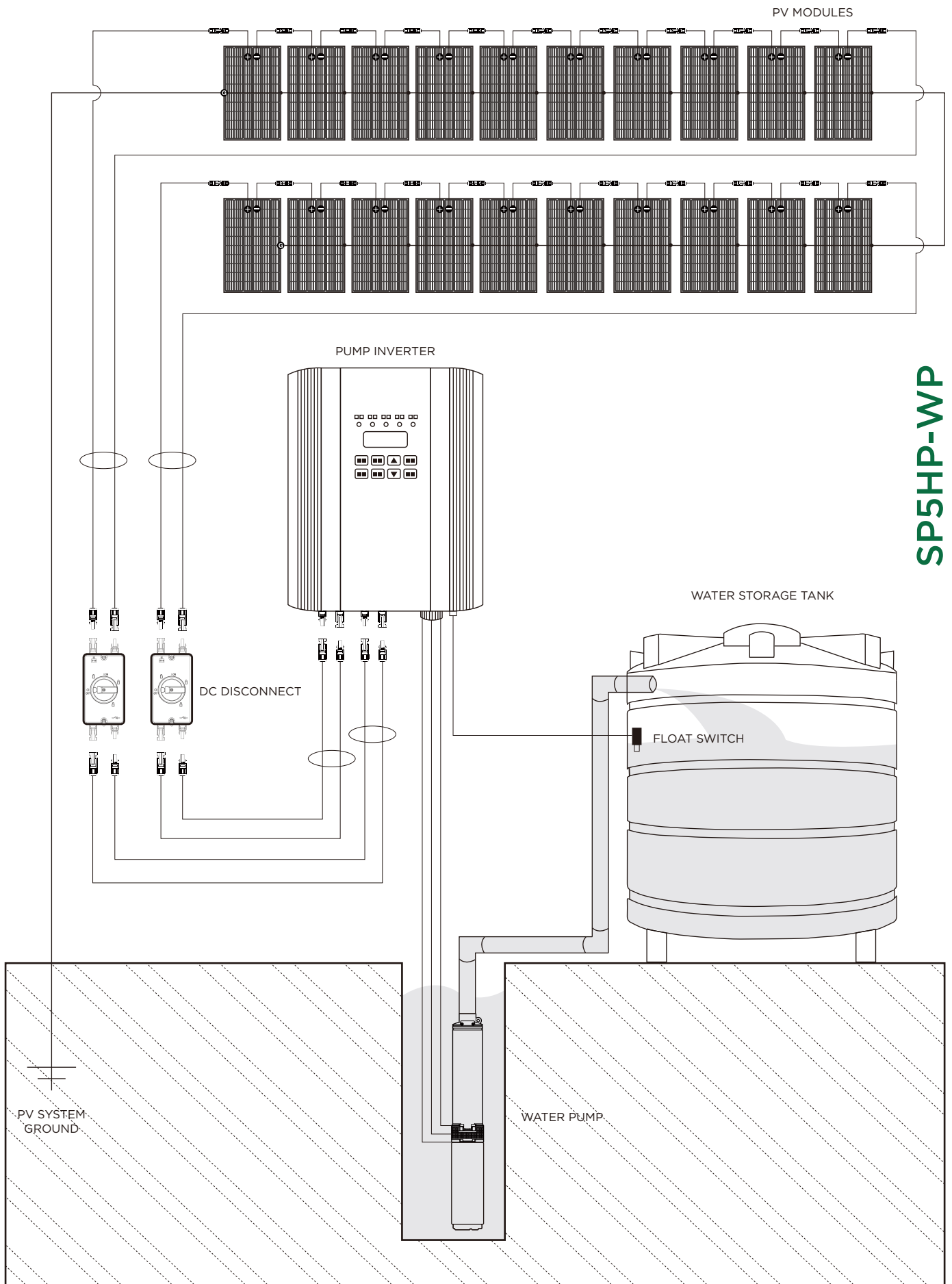
Number of Modules	3	8	10	20	40	80	
PV Array Surface Area (m ²)	5.1	13.6	17	34	68	136	
PV Array Weight (kg)	55.8	148.8	186	372	744	1488	
No. of PV Modules / String	3	4	5	20			
PV Module String Configuration	Total Strings	1			1	2	4
	String Voc (V)	116.4	155.2	194	776		
	String Vmp (V)	95.4	127.2	159	636		
	String Imp (A)	8.81			8.81		

SYSTEM OPTIONS

Monitoring Device	Wi-Fi or GPRS					
PV Module Type	Monocrystalline(Poly also available upon request)					
Mounting System Types	Metal Roof, Tile Roof, Asphalt Shingle, Flat Concrete, Ballast, Ground					
Accessories	Float Switchch			Float Switchch - Grid / Diesel Back-Up		

SHIPPING

PV Kit Weight (kg)	122.1	220.3	255	459.5	854.5	1635
PV Kit Shipping Size	1.7 x 0.45 x 1	1.7 x 0.55 x 1	1.7 x 0.7 x 1	1.7 x 1.1 x 1		
Total Number of Boxes	1			1	2	5



SP5HP-WP



Phone: +86 551 6586 5992
WhatsApp: +86 183 0554 5727
Email: info@sunpalpower.com

SUNPAL POWER CO.,LTD.
West Changjiang Road,Shushan District,
Hefei City,Anhui Province,China.

www.sunpalpower.com