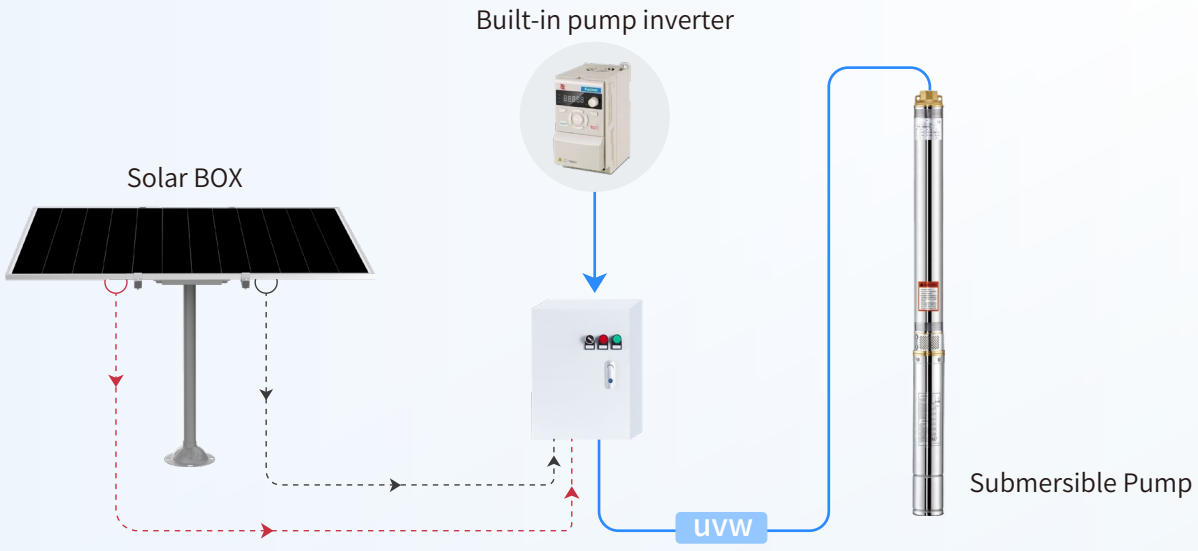
Solar Pump BOX

Providing water solution for global users

Supporting Plan 1

Supporting Plan 2



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Submersible Pump

MODEL	P_2		DELIVERY									n≈2850 r/min
3~220V/50Hz	kW	HP	Q m^3/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7
			Q l/min	0	5	10	15	20	25	30	35	40	45
3SD2/15	0.55	0.75	H(m)	64	63	62	61	58	54	49	43	36	27
3SD2/39	1.1	1.5		166	164	161	159	151	141	127	112	94	70
MODEL	P_2		DELIVERY									n≈2850 r/min
3~220V/50Hz	kW	HP	Q m^3/h	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4
			Q l/min	0	10	20	30	40	50	60	70	80	90
3SD4/9	0.55	0.75	H(m)	37	37	36	35	33	32	28	24	19	12
3SD4/25	1.1	1.5		103	102	101	98	93	86	78	67	53	32

Built-in Pump Inverter

Input:
DC 320V

Output:
3PH 0~220V 0~200Hz

Power:
1.5kW 4.5A

Solar Box

Solar Panel Peak Power	580W	Working temperature range	0°C~+60°C
Battery Capacity	3kWh	Storage Humidity	< 75% RH
Cell Type	LiFePO4 Battery	Self-Discharge(25°C)	<3%/Month
Maximum Continuous Output Power	2kW	Depth Of Discharge	>95%
DC Output voltage	DC 320V	C-Rate Discharge	<0.8C
Maximum Continuous Output Current	6A	Cycle Life	> 8000 Times (< 0.5C)

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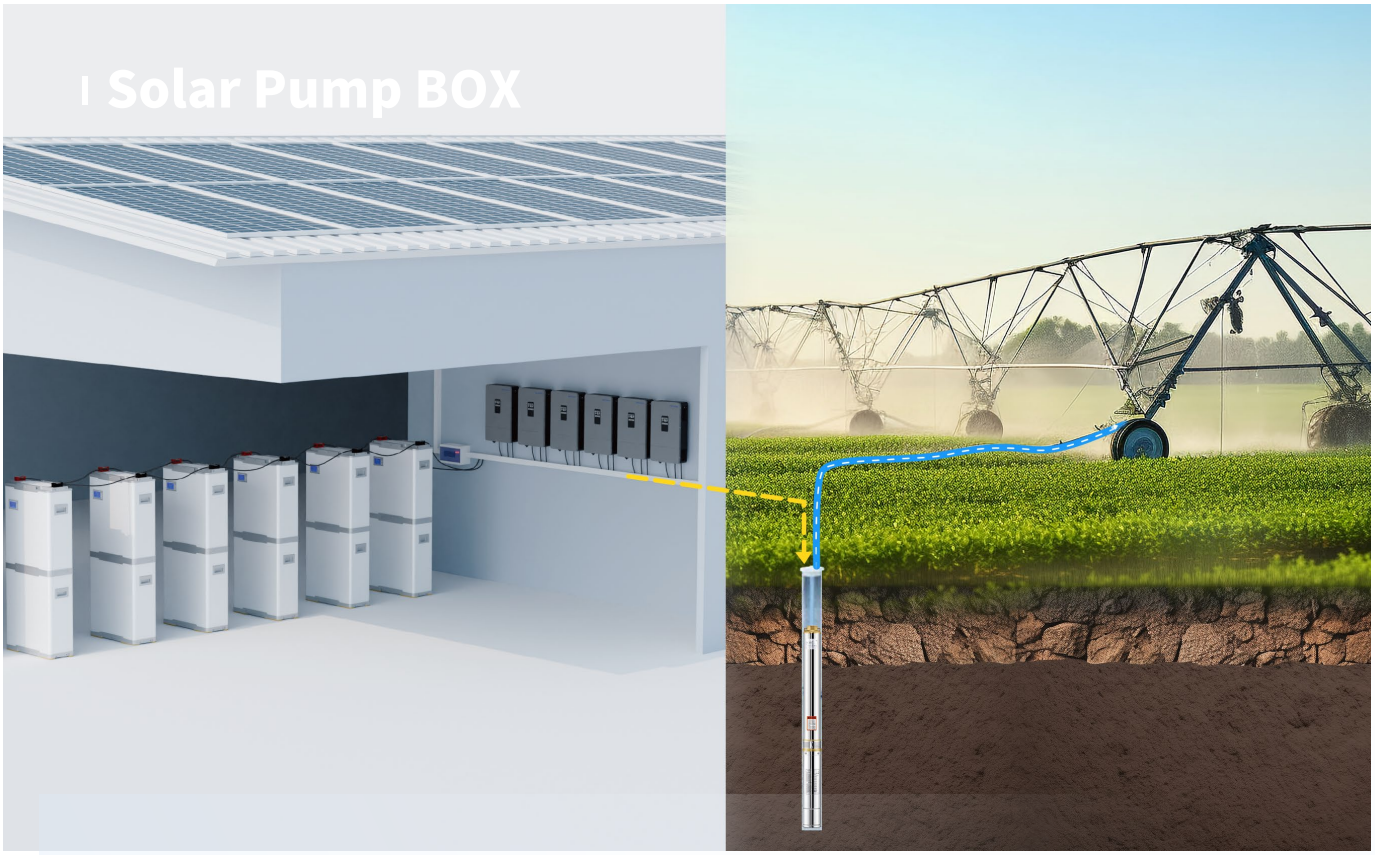
Supporting Plan 2



Solar pump BOX-supporting plan 2 configuration includes:

Submersible Pump + 6kW Inverter + Battery Pack + 585W Solar Panel

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585W Solar Panel

Maximum Power Voltage(Vmp)	42.52V
Maximum Power Current(Imp)	13.76A
Open-circuit Voltage(Voc)	51.16V
Short-circuit Current(Isc)	14.55A
Module Efficiency STC(%)	22.65%

48V-200Ah/300Ah Battery Pack

Nominal Capacity	200Ah/300Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	10.24kWh/15.36kWh
Continuously Use Output Current	100A
Cell Type	LiFePO4 Battery/LFP

Single Phase Off-grid Inverter 6000W Inverter

AC Input Voltage(VAC)	208/220/230/240; L+N+PE	Peak Power(kVA)	10
Solar Charge Type	MPPT	AC Output Voltage(VAC)	208/220/230/240
Battery Voltage(VDC)	48	Frequency	50/60HZ+0.1%
Max Power(kW)	6	Wave Form	Pure Sine Wave

Submersible Pump

MODEL	P_2		DELIVERY n≈2850 r/min											
3~380V/50Hz	kW	HP	Q m^3/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3
			l/min	0	5	10	15	20	25	30	35	40	45	50	55
4SD2/37	2.2	3	H(m)	262	259	258	255	247	238	222	209	191	168	145	119

MODEL	P_2		DELIVERY n≈2850 r/min							
3~380V/50Hz	kW	HP	Q m^3/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4
			l/min	0	20	40	60	80	100	120	140
4SD6/42	5.5	7.5	H(m)	302	290	279	260	233	195	145	80
4SD6/50	7.5	10		359	345	332	309	277	232	173	95

MODEL	P_2		DELIVERY n≈2850 r/min									
3~380V/50Hz	kW	HP	Q m^3/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8
			l/min	0	20	40	60	80	100	120	140	160	180
4SD8/17	2.2	3	H(m)	107	104	96	90	85	81	74	63	48	31

MODEL	P_2		DELIVERY n≈2850 r/min									
3~380V/50Hz	kW	HP	Q m^3/h	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2
			l/min	0	30	60	90	120	150	180	210	240	270
4SD12/31	7.5	10	H(m)	210	202	190	175	165	151	135	117	93	55

MODEL	P_2		DELIVERY n≈2850 r/min									
3~380V/50Hz	kW	HP	Q m^3/h	0	3	6	9	12	15	18	21	24	27
			l/min	0	50	100	150	200	250	300	350	400	450
4SD20/17	5.5	7.5	H(m)	106	104	98	87	76	68	60	50	37	22

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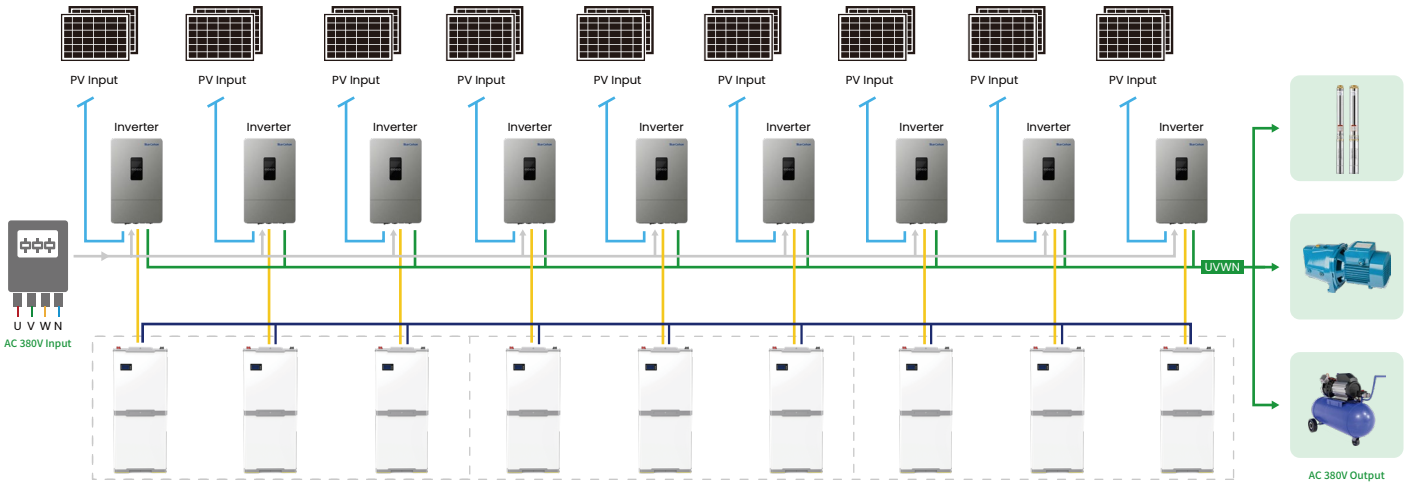
Product Advantages



Modular, Expandable, and Replicable Solutions

Water Pump Utilization Rate

When there is sufficient sunlight, the excess electricity can be stored, and when there is insufficient sunlight, the stored electricity can be used for work. The water pump utilization rate can be increased by 40%-50%.

Work in Weak Light Conditions

It can still generate electricity effectively in weak light weather, 30%-40% in cloudy weather, and 10% on overcast days.

Work Time Flexibility

Waterung can be carried out at any time, allowing plants to avoid root damage caused by watering during high temperature periods.

Equipment Cost

It can work at any time, no need to store water in advance, no need for water tank.

Working Stability

It can work continuously at constant power, not affected by external factors.

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Agricultural Irrigation

- Green Infrastructure
- Household Water Transfer
- And more...

Wide range of usage scenarios,suitable for areas without electricity prower with unstable power supply.

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