



SOLAR PUMP INVERTER

2026

PRODUCT CATALOG

CE © ISO9001





COMPANY PROFILE

Zhejiang Rambo Intelligent Technology Co., Ltd.(ZRI Co.,ltd) Is the leading manufacturer and exporter of water pumps in China, located in Daxi Industrial Zone, Wenling, Zhejiang province.

With over 20 years experience and efforts, our products has diversified into wide range of selections to meet customers' Needs which include Solar pumps, Submersible pumps, Deep well pumps, and Land domestic pumps, etc. While our latest Energy-saving products---Solar pumps have developed rapidly and got a great success during recent years. After several years' Development, ZRI' S network has been spread to about 80 countries and regions around the world. We have become the long-term supplier of world-class retailer

Besides the IATF quality control system, ZRI has a group of professional technical engineers and a strong R&D team. Our engineers are able to provide expert technical support with the most efficient and cost effective solutions. The R&D team satisfies customers with specialized design and develops new products according to market demand.

ZRI has good cooperative relationships with some noted universities and institutes, and also famous manufacturers in Europe. It greatly strengthens ZRI' S R&D ability.

To do the best pump from China is ZRI' S purpose



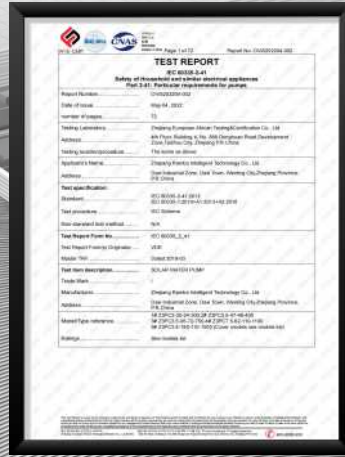
ISO 9001-2015



CE



IEC 60335-2-41



BV Certificate



BELIEVE IN THE POWER OF BRAND





APPLICATION FOR SOLAR PUMPING SYSTEM



Irrigation



Stock farming



Fountain



Drinking water



Ecological
management

SOLAR
ZRI



APPLICATION



GARDENING



IRRIGATION



WASHING



SHALLOW
WELL



HIGHLIFT



HOME SWIMMING
POOL

For water supply from wells or reservoirs

For domestic use, for civil and industrial applications

For garden use and irrigation

ZFPV500 / 580

HUGE POWER SOLAR PUMP INVERTER

www.zripump.com



Large Flow
Gao Yangcheng



All-copper motor coil



Low noise



High efficiency
and energy saving



Super durability



ZFPV 150 / 500

SOLAR PUMP INVERTER

SOLAR
ZRI



ZFPV
Series solar Pump Inverter

Solar pump inverter introduction

ZFPV series solar pump inverter

Clean energy:

inexhaustible energy supply, non-pollution, zero carbon dioxide emissions, actively contribute to curbing global warming.

Economic and affordable: One-time investment to get long-term returns, and enjoy government subsidies.

Safe and reliable: unattended, work at sunrise and stop at sunset

Simple operation: One key operation

Smart Internet of Things:

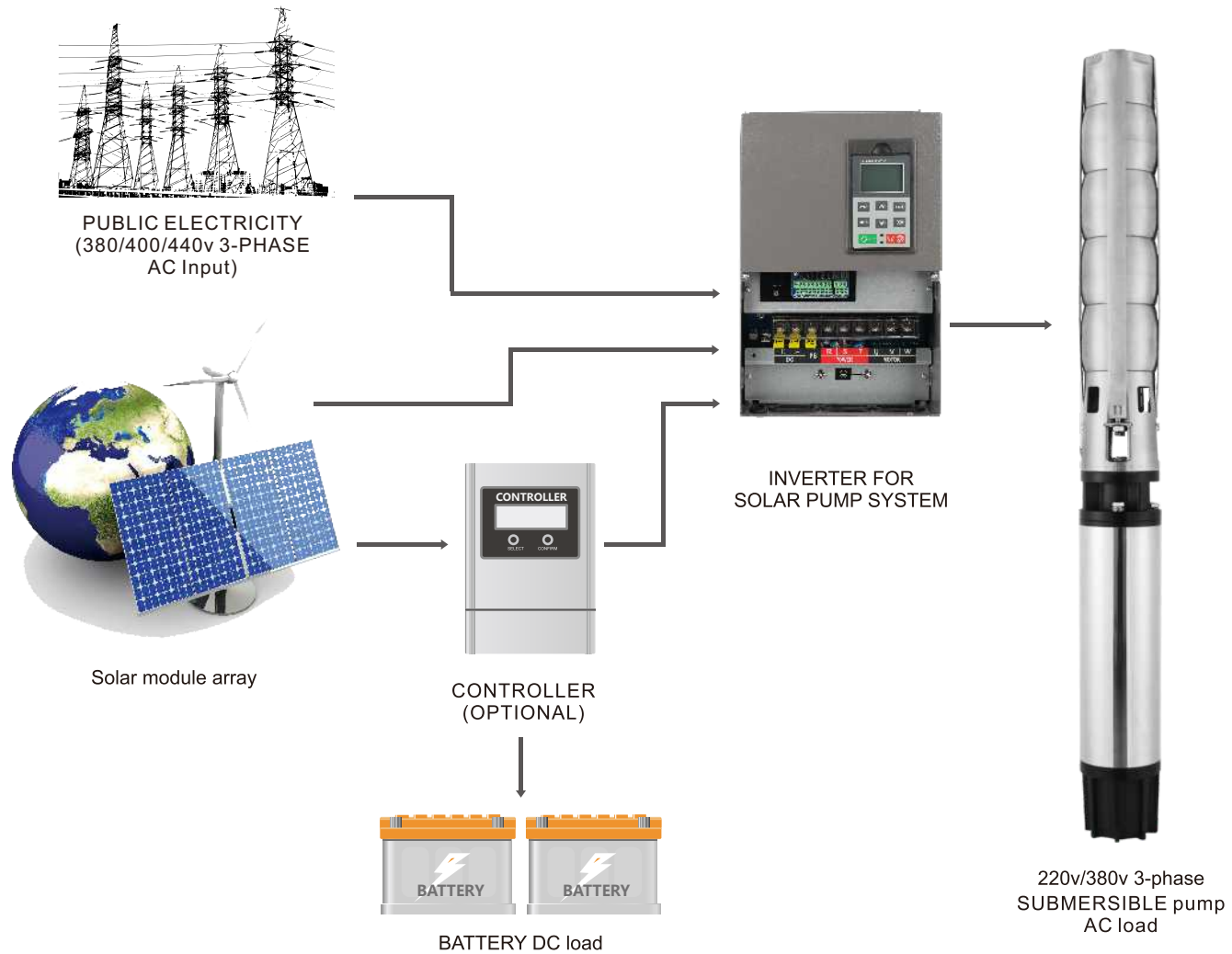
powerful GPRS Internet of Things, and users could master the system state at anytime and anywhere.

Personal customized:

special model supports ultra low input voltage of 30-300VDC with a specialized sine wave filter.

International standards: in line with national standards and access to CE certification.





PV pump system is different from the traditional AC pump application system, PV pumping inverter converts DC voltage from the solar array into AC voltage to drive the pump. Pumping water from deep well, river, lake, etc.



ZFPV 500

SOLAR PUMP INVERTER

ZFPV500 Solar Pump Inverter

Item	Solar pump inverter power (KW)	Pump		Max solar power input (KW)	Max DC input voltage V	Recommend Voc voltage (V)	Rated output current (A)	Output frequency (Hz)
		Rated power (KW)	Rated voltage (V)					
ZFPV500-2SP-0.7G	0.75	0.75	220	1	450	360~430	4	0-320
ZFPV500-2SP-1.5G	1.5	1.5	220	1.95	450	360~430	7	0-320
ZFPV500-2SP-2.2G	2.2	2.2	220	2.86	450	360~430	10	0-320
ZFPV500-2SP-4.0G	4	4	220	5.4	450	360~430	16	0-320
ZFPV500-3TH-0.7G	0.75	0.75	380	1	780	620~750	3	0-320
ZFPV500-3TH-1.5G	1.5	1.5	380	2.2	780	620~750	4	0-320
ZFPV500-3TH-2.2G	2.2	2.2	380	3.3	780	620~750	6	0-320
ZFPV500-3TH-4.0G	4	4	380	5.6	780	620~750	10	0-320
ZFPV500-3TH-5.5G	5.5	5.5	380	8	780	620~750	13	0-320
ZFPV500-3TH-7.5G	7.5	7.5	380	10	780	620~750	17	0-320
ZFPV500-3TH-11G	11	11	380	14.3	780	620~750	25	0-320
ZFPV500-3TH-15G	15	15	380	19.5	780	620~750	32	0-320
ZFPV500-3TH-18.5G	18.5	18.5	380	23.4	780	620~750	38	0-320
ZFPV500-3TH-22G	22	22	380	28.6	780	620~750	45	0-320
ZFPV500-3TH-30G	30	30	380	39	780	620~750	60	0-320
ZFPV500-3TH-37G	37	37	380	48.1	780	620~750	75	0-320
ZFPV500-3TH-45G	45	45	380	58.5	780	620~750	90	0-320
ZFPV500-3TH-55G	55	55	380	71.5	780	620~750	110	0-320
ZFPV500-3TH-75G	75	75	380	97.5	780	620~750	150	0-320

Technical parameters

Project		Parameters
Input power supply	Voltage, frequency	2SP model: 150-450VDC/ single-phase 220VAC 50/60HZ
		3TH model: 350-780VDC/ three-phase 380VAC 50/60HZ
	Allowable Fluctuations	Voltage imbalance rate: < 3%
		Frequency fluctuation: ±5%
		Distortion rate: Conform to IEC 61800-2
	Frequency inverter efficiency	≥96%
Recommended voltage Voc	2SP model: 175-360VDC	
	3TH model: 620-750VDC	
Output	MPPT efficiency	reaches 99.9%
	Output frequency range	0-320Hz (320 Hz or higher frequency can be customized)
	Overload capacity	150% rated current 1min; 180% rated current 10s; 200% rated current 0.5s
Protection Functions	Solar pump protection functions	Dry protection, low frequency protection, minimum power protection, sleep protection, overwater protection, pump overcurrent protection, etc.
	Basic protection functions	Overvoltage, undervoltage, inverter overcurrent, module fault, inverter overload, motor overload, current detection zero-drift fault, current detection fault, E2RCM fault, grounding short-circuit fault, input phase loss, output phase loss , inverter overheating, communication fault, motor parameter self-learning fault, etc.
	Short-circuit detection of motor grounding	Automatic detection whether the motor is Short-circuit to ground in power-on
	Servo control	Support synchronous and asynchronous servo control, perform pulse tracking, zero servo, indexing positioning and other basic servo functions, and support the orthogonal pulse given.
		Communication network
	Long-distance monitoring function	Supports long-distance program upgrade, data monitoring and lock function, can connect VEICHI GPRS module, and supports VEICHI virtual oscilloscope for monitoring and debugging.
Surroundings	Installation location	Outdoor, less than 1000m altitude, keep away from corrosive air and direct sunlight
	Temperature, humidity	-10-60°C, 20%-95%RH (no condensation)
	Vibration	The vibration is less than 0.5g when the vibration frequency is less than 20Hz
	Storage temperature	-20~60°C
	Installation mode	Suspension installation
	Protection class	IP20
	Cooling method	Natural cooling/forced air cooling
International certification		CE



AC Deep Well Pump for Huge Power Solar Pumping System



Model	Voltage	Power	Rated Flow	Rated Head	Flow	0	1	2	3	4
	V	W	m ³ /h	m	m ³ /h					
4SP3-61-12-0.75	220 / 380	0.75	3	61	Head(m)	72	68	64	61	40
4SP3-80-16-1.1	220 / 380	1.1	3	80		91	89	85	80	50
4SP3-109-22-1.5	220 / 380	1.5	3	109		132	125	118	109	75
4SP3-157-32-2.2	220 / 380	2.2	3	157		190	185	176	157	110
4SP3-220-45-3.0	380	3	3	220		256	250	244	220	150
4SP3-287-59-4.0	380	4	3	287		323	310	302	287	210
4SP3-316-65-5.5	380	5.5	3	316		355	345	328	316	247

Model	Voltage	Power	Rated Flow	Rated Head	Flow	0	6	8	9	10	12
	V	W	m ³ /h	m	m ³ /h						
4SP8-25-5-0.75	220 / 380	0.75	8	25	Head(m)	33	28	25	22	17	12
4SP8-34-7-1.1	220 / 380	1.1	8	34		44	39	34	31	26	17
4SP8-47-10-1.5	220 / 380	1.5	8	47		59	56	47	38	34	20
4SP8-61-13-2.2	220 / 380	2.2	8	61		75	71	61	55	46	28
4SP8-83-18-3.0	380	3	8	83		98	94	83	71	61	35
4SP8-114-25-4.0	380	4	8	114		134	122	114	100	84	50
4SP8-145-32-5.5	380	5.5	8	145		169	157	145	121	101	67
4SP8-178-40-7.5	380	7.5	8	178		203	185	178	148	116	81

Model	Voltage	Power	Rated Flow	Rated Head	Flow	0	6	8	10	14	16
	V	W	m ³ /h	m	m ³ /h						
4SP14-20-5-1.5	220 / 380	1.5	14	20	Head(m)	35	32	29	25	20	16
4SP14-28-7-2.2	220 / 380	2.2	14	28		49	45	40	34	28	23
4SP14-40-10-3.0	380	3	14	40		70	62	57	49	40	32
4SP14-52-13-4.0	380	4	14	52		91	81	74	63	52	42
4SP14-60-15-5.5	380	5.5	14	60		105	94	85	73	60	48
4SP14-72-18-5.5	380	5.5	14	72		126	113	103	90	72	58
4SP14-84-21-7.5	380	7.5	14	84		147	135	119	101	84	67
4SP14-100-25-7.5	380	7.5	14	100		175	163	143	123	100	80



AC Deep Well Pump for Huge Power Solar Pumping System



Model Three phase 380-415V/ 50Hz	Motor Power		Rated Flow m ³ /h	Rated Head m	Head(m)	The best use the flow head						
	KW	HP				L/min	0	166	250	333	416	500
						m ³ /h	0	10	15	20	25	30
6SP20-17-2-1.5	1.5	2	20	17		22	21	19	17	12	6	
6SP20-26-3-2.2	2.2	3	20	26		33	31	29	26	18	10	
6SP20-34-4-3.0	3	4	20	34		44	41	38	34	24	13	
6SP20-51-6-4.0	4	5.5	20	51		66	62	57	51	36	19	
6SP20-68-8-5.5	5.5	7.5	20	68		88	82	76	68	54	29	
6SP20-94-11-7.5	7.5	10	20	94		121	113	105	94	66	35	
6SP20-111-13-9.2	9.2	12.5	20	111		145	136	125	111	78	41	
6SP20-136-16-11	11	15	20	136		176	165	152	136	96	51	
6SP20-162-19-13	13	17.5	20	162		209	196	181	162	114	61	
6SP20-187-22-15	15	20	20	187		242	227	209	187	132	70	
6SP20-230-27-18.5	18.5	25	20	230		297	278	257	230	162	86	
6SP20-272-32-22	22	30	20	272		352	330	304	272	192	102	
6SP20-323-38-26	26	35	20	323		418	391	361	323	228	122	

Model Three phase 380-415V/ 50Hz	Motor Power		Rated Flow m ³ /h	Rated Head m	Head(m)	The best use the flow head						
	KW	HP				L/min	0	333	500	666	750	833
						m ³ /h	0	20	30	40	45	50
6SP40-18-2-3.0	3	4	40	18		26	25	21	18	16	13	
6SP40-27-3-5.5	5.5	7.5	40	27		40	37	32	27	25	20	
6SP40-36-4-7.5	7.5	10	40	36		53	50	43	36	32	26	
6SP40-46-5-7.5	7.5	10	40	46		67	63	54	46	41	33	
6SP40-55-6-9.2	9.2	12.5	40	55		80	75	65	55	49	40	
6SP40-64-7-11	11	15	40	64		94	88	75	64	57	47	
6SP40-74-8-13	13	17.5	40	74		107	101	86	74	65	54	
6SP40-92-10-15	15	20	40	92		134	126	108	92	82	67	
6SP40-110-12-18.5	18.5	25	40	110		161	151	130	110	98	80	
6SP40-129-14-22	22	30	40	129		188	176	151	129	115	94	
6SP40-156-17-26	26	35	40	156		228	214	184	156	139	114	
6SP40-184-20-30	30	40	40	184		268	252	216	184	164	134	
6SP40-221-24-37	37	45	40	221		322	302	259	221	196	161	

Model Three phase 380-415V/ 50Hz	Motor Power		Rated Flow m ³ /h	Rated Head m	Head(m)	The best use the flow head						
	KW	HP				L/min	0	666	833	916	1000	1083
						m ³ /h	0	40	50	55	60	65
6SP60-31-4-7.5	7.5	10	60	31		56	40	36	34	31	28	
6SP60-39-5-9.2	9.2	12.5	60	39		70	51	45	42	39	34	
6SP60-46-6-11	11	15	60	46		84	61	54	50	46	41	
6SP60-62-8-15	15	20	60	62		112	82	72	67	62	55	
6SP60-70-9-18.5	18.5	25	60	70		126	93	81	75	70	62	
6SP60-78-10-18.5	18.5	25	60	78		140	103	90	84	78	69	
6SP60-86-11-22	22	30	60	86		154	116	100	93	86	76	
6SP60-94-12-22	22	30	60	94		168	124	110	102	94	83	
6SP60-102-13-26	26	35	60	102		182	136	118	110	102	90	
6SP60-110-14-26	26	35	60	110		196	146	128	119	110	97	
6SP60-117-15-26	26	35	60	117		210	155	135	126	117	104	
6SP60-125-16-30	30	40	60	125		224	168	145	135	125	111	

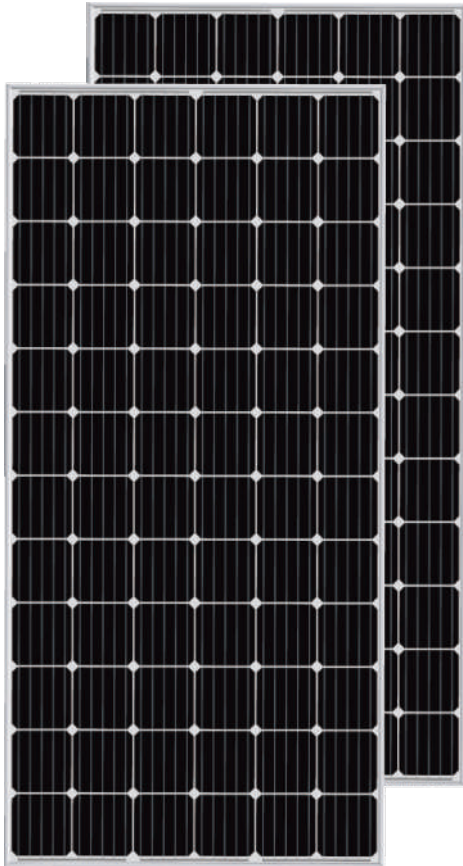


AC Deep Well Pump for Huge Power Solar Pumping System

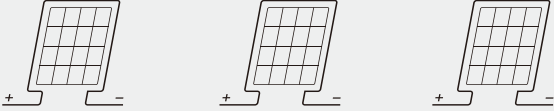
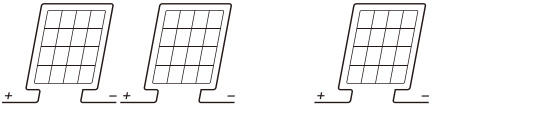


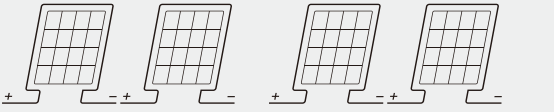
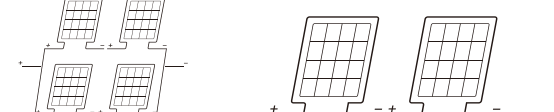
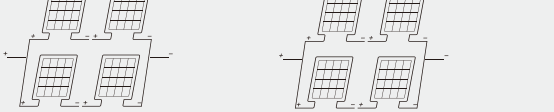


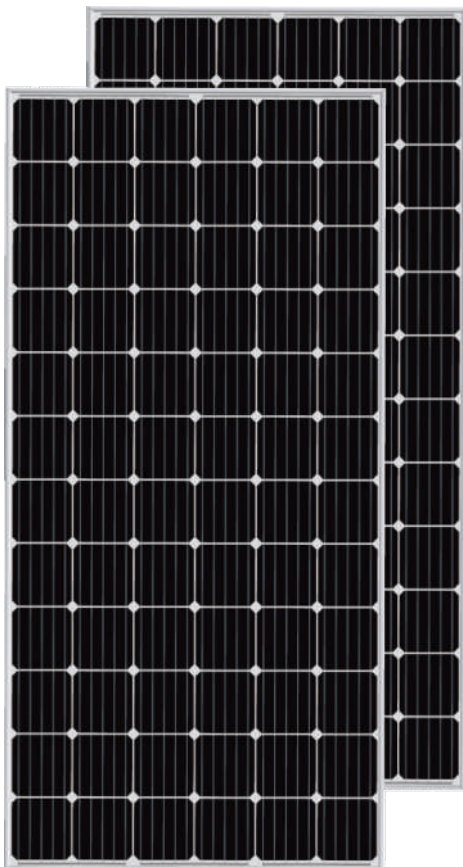
Model Three phase 380-415V/ 50Hz	Motor Power		Rated Flow m ³ /h	Rated Head m	The best use the flow head						
	KW	HP			L/min	0	833	1000	1166	1283	1500
			m ³ /h	0	50	60	70	77	90		
8SP77-13-1-5.5	5.5	7.5	77	13	Head(m)	20	16	15	14	13	10
8SP77-27-2-7.5	7.5	10	77	27		40	31	30	28	27	21
8SP77-40-3-11	11	15	77	40		59	47	44	42	40	31
8SP77-53-4-15	15	20	77	53		79	63	59	56	53	42
8SP77-67-5-18.5	18.5	25	77	67		99	78	74	70	67	52
8SP77-80-6-22	22	30	77	80		119	94	89	84	80	63
8SP77-93-7-26	26	35	77	93		139	110	104	98	93	73
8SP77-107-8-30	30	40	77	107		159	125	119	112	107	84
8SP77-133-10-37	37	50	77	133		198	157	148	140	133	105
8SP77-160-12-45	45	60	77	160		238	188	178	168	160	126
8SP77-200-15-55	55	75	77	200		297	235	222	210	200	157
8SP77-227-17-63	63	85	77	227		337	266	252	238	227	178
8SP77-267-20-75	75	100	77	267		397	313	297	280	267	210

Model Three phase 380-415V/ 50Hz	Motor Power		Rated Flow m ³ /h	Rated Head m	The best use the flow head						
	KW	HP			L/min	0	1000	1333	1583	1666	1833
			m ³ /h	0	60	80	95	100	110		
8SP95-12-1-5.5	5.5	7.5	95	12	Head(m)	21	16	14	12	11	9
8SP95-24-2-9.2	9.2	12.5	95	24		41	31	28	24	22	18
8SP95-36-3-13	13	17.5	95	36		61	47	41	36	33	28
8SP95-48-4-18.5	18.5	25	95	48		82	62	55	48	45	37
8SP95-60-5-22	22	30	95	60		102	78	69	60	56	46
8SP95-72-6-26	26	35	95	72		123	94	83	72	67	55
8SP95-96-8-37	37	50	95	96		163	124	110	96	89	73
8SP95-120-10-45	45	60	95	120		204	155	137	120	112	92
8SP95-132-11-55	55	75	95	132		225	172	152	132	123	101
8SP95-144-12-55	55	75	95	144		246	187	165	144	135	111
8SP95-168-14-63	63	85	95	168		285	218	193	168	157	129
8SP95-193-16-75	75	100	95	193		326	249	220	193	179	147
8SP95-240-20-93	93	125	95	240		408	312	276	240	224	184



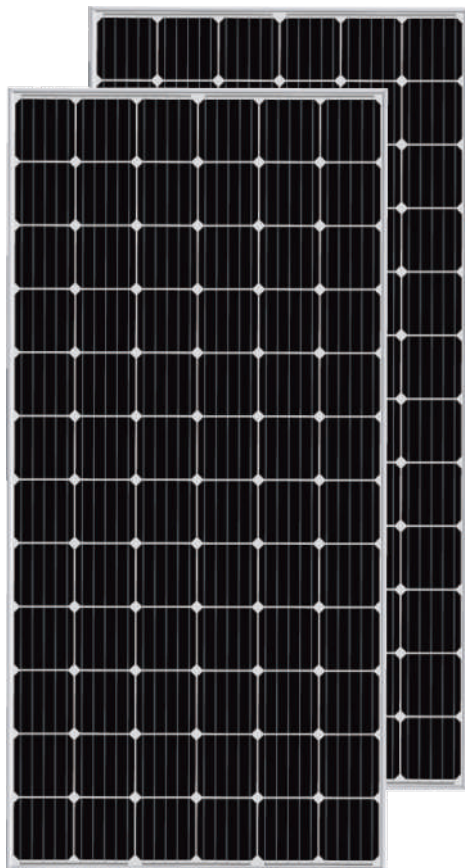
Solar Panel recommendation for 24-110(150)V DC

Power 80W-12V Vol: 18-50V	 Solar Panel: 150w*1PCS / 265W*1PCS / 340W *1PCS
Power 120-210W-24V 210W -36V Vol: 18-50V	 Solar Panel: 150w*2PCS / 265W*1PCS / 340W *1PCS
Power 280W-24V 300W-24V Vol: 18-50V	 Solar Panel: 265w*2PCS / 340W*2PCS
Power 400W-36V Vol: 18-50V	 Solar Panel: 265w*2PCS / 340W*2PCS
Power 370W-48V 400W-48V Vol: 30-100V	 Solar Panel: 265w*2PCS / 340W*2PCS
Power 500W-48V 550W-48V Vol: 30-100V	 Solar Panel: 265w*4PCS / 340W*2PCS
Power 600W-48V Vol: 30-100V	 Solar Panel: 265w*4PCS / 340W*4PCS



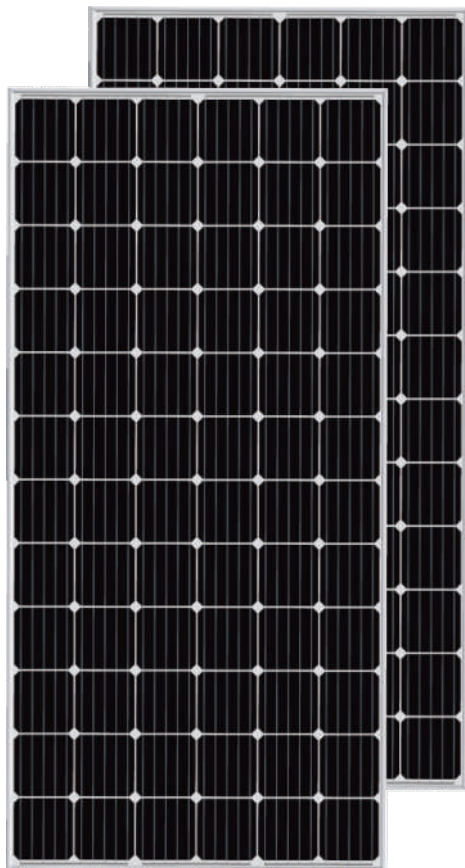
Solar Panel recommendation for 24-110(150)V DC

<p>Power 600W-72V</p> <p>Vol: 50-150V</p>	<p>Solar Panel: 265w*3PCS / 340W*3PCS</p>
<p>Power 750W-48V</p> <p>Vol: 30-100V</p>	<p>Solar Panel: 265w*4PCS / 340W*4PCS</p>
<p>Power 750W-72V</p> <p>Vol: 50-150V</p>	<p>Solar Panel: 265w*4PCS / 340W*3PCS</p>
<p>Power 900W-72V</p> <p>Vol: 50-150V</p>	<p>Solar Panel: 265w*4PCS / 340W*4PCS</p>
<p>Power 1000W-96V</p> <p>Vol: 60-200V</p>	<p>Solar Panel: 265w*6PCS / 340W*6PCS</p>
<p>Power 1300W-96V</p> <p>Vol: 60-200V</p>	<p>Solar Panel: 265w*8PCS / 340W*8PCS</p>
<p>Power 1600W-110V</p> <p>Vol: 60-200V</p>	<p>Solar Panel: 265w*4PCS / 340W*4PCS</p>



Solar Panel recommendation for AC/DC Solar Pump

<p>POWER 750W-220V</p> <p>BEST DC Vol. 300-400V</p>		<p>Solar Panel: 265W*7PCS Solar Panel: 340W*6PCS</p>
<p>POWER 1100W-220V 1200W-220V</p> <p>BEST DC Vol. 300-400V</p>		<p>Solar Panel: 265W*8PCS Solar Panel: 340W*7PCS</p>
<p>POWER 1300W-220V 1500W-220V</p> <p>BEST DC Vol. 300-400V</p>		<p>Solar Panel: 265W*10PCS Solar Panel: 340W*8PCS</p>
<p>POWER 2200W-220V</p> <p>BEST DC Vol. 300-400V</p>		<p>Solar Panel: 265W*11PCS Solar Panel: 340W*9PCS</p>
<p>POWER 2200W-380V</p> <p>BEST DC Vol. 480-750V</p>		<p>Solar Panel: 265W*15PCS Solar Panel: 340W*13PCS</p>
<p>POWER 3000W-380V</p> <p>BEST DC Vol. 480-750V</p>		<p>Solar Panel: 265W*16PCS Solar Panel: 340W*14PCS</p>



Solar Panel recommendation for AC/DC Solar Pump

<p>POWER 4000W-380V</p> <p>BEST DC Vol. 480-750V</p>		<p>Solar Panel: 265W*19PCS Solar Panel: 340W*17PCS</p>
<p>POWER 5500W-380V</p> <p>BEST DC Vol. 480-750V</p>		<p>Solar Panel: 265W*32PCS Solar Panel: 340W*28PCS</p>
<p>POWER 7500W-380V</p> <p>BEST DC Vol. 480-750V</p>		<p>Solar Panel: 265W*38PCS Solar Panel: 340W*34PCS</p>
<p>POWER 9200W-380V</p> <p>BEST DC Vol. 480-750V</p>		<p>Solar Panel: 265W*48PCS Solar Panel: 340W*42PCS</p>
<p>POWER 11000W-380V</p> <p>BEST DC Vol. 480-750V</p>		<p>Solar Panel: 265W*54PCS Solar Panel: 340W*48PCS</p>
<p>POWER 15000W-380V</p> <p>BEST DC Vol. 480-750V</p>		<p>Solar Panel: 265W*80PCS Solar Panel: 340W*68PCS</p>



ZHEJIANG RAMBO INTELLIGENT TECHNOLOGY CO., LTD

- 📍 ADD: Daxi Industrial Zone, Daxi Town, Wenling City, Zhejiang Province, P.R.China
- ☎ TEL: +86-166-0576-0038 +86-166-0576-0098
- ✉ E-mail: sales@zripump.com
- 🌐 [Http://www.zripump.com/](http://www.zripump.com/)