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SI22 puts uncompromising performance and potential in your application. It's thinner and lighter than ever before, yet powerful enough to help you take your ideas even further.

Product Features











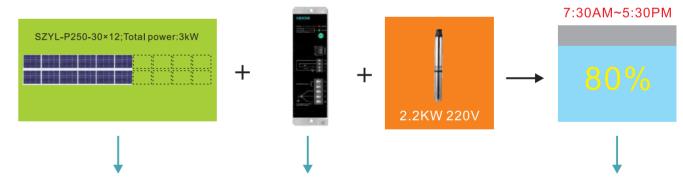
Ultrahigh Cost Performance

Working as smart assistant for farmers, economical and practical.

SI20-D5-004G



SI22-D3-2R2G



Save 8 pcs panels(save 40% \$) Inverter saves about 20%

Pump 10% more water per day

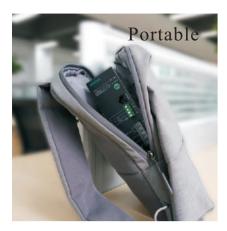




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Small Body

Palm-sized, reducing installation space & delivery cost.







Smart IOT

Wireless data transmission card





Supports wide frequency bands for global application



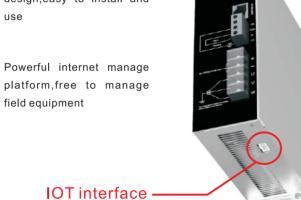
Small size, integrated design, easy to install and use



Support wifi transmission LAN could be built through wifi in someplace without network coverage



Built in GPS+Beidou positioning chips, dual positioning system

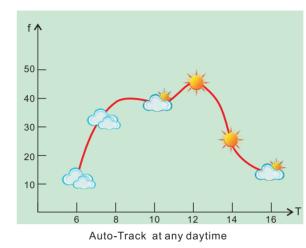


Driving Multi-types of Pumps



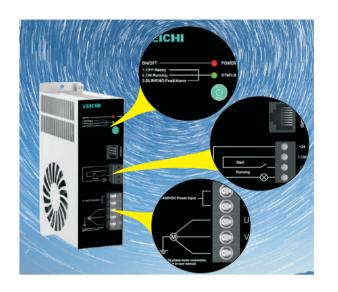
MPPT Technology: Auto-track the whole voltage range

- Wide input voltage range 60-400VDC
- MPPT efficiency more than 99%
- Auto-track at daytime

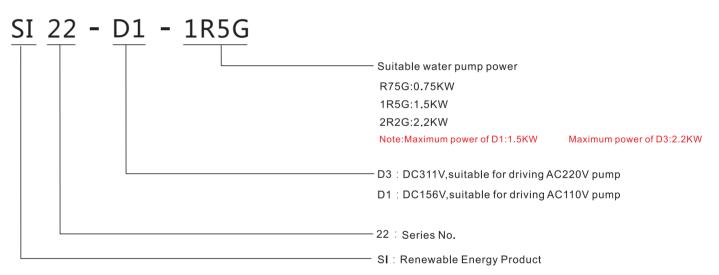


Modern Stylish

One technology & one art, Easy to understand



SI22 Product Model



Technical Specification

Solar Pump Inverter Power(KW)	Pu Rated Power (KW)	mp Rated Voltage(V)	Max solar power input (KW)		Recommend Voc voltage (V)	Rated Output Current(A)	Output frequency(Hz)		
SI22-D1 series, DC60-400VDC input, 3 phase 110-230VAC output, suitable for 110VAC pump									
0.75	0.75	110	1.0	400	175-380	7A	0-320		
1.5	1.5	110	1.95	400	175-380	10A	0-320		
SI22-D3 series, DC60V-400V input, 3 phase 220-240VAC output, suitable for 220VAC pump									
0.75	0.75	220	1.0	400	360-400	4A	0-320		
1.5	1.5	220	1.95	400	360-400	7A	0-320		
2.2	2.2	220	2.86	400	360-400	10A	0-320		

Technical Specification

Items		Specification				
Power Input	Voltage	60-400VDC				
	Inverter Efficiency	》96%				
Output	MPPT Efficiency	More than 99%				
	Output Frequency Range	0-320Hz (320Hz or more can be customized)				
	Overload Capacity	150% of rated current for 1 minute , 180% for 10 seconds , 200% for 0. second				
Basic	Solar Pump Protection	Dry run、low frequency、low power、dormancy、water fulfilled and over -current of pump protections				
Function	IOT Module	Support plug and play IOT module				
	DI/DO	1 loop digital input,1 loop collector circuit output				
	Auxiliary Power	24VDC, maximum output 100mA				
	Water Pump Types	Three -phase AC AM pump (110VAC/220VAC), three-phase AC PMSM pump , BLDC pump (10A or below) , single-phase pump (10A or below)				
	Basic Protection	Over voltage、under voltage、over current、overload、over heat、Hall fault、short circuit between phases、 grounding short circuit、output phase loss,etc.				
Environment	Installation Site	Indoor,altitude less than 1000m, free corrosive gases and direct sunlight				
	Temperature、Humidity	-10—60°C				
	Installation Mode	Hanging				
	Ingress Protection	IP20				
	Cooling	Forced air cooling				
International Certificate	CE					

Recommended Configuration

	Solar panel model 1			Solar panel model 2		
Solar pump inverter model	Voc: 21V±2V			Voc: 36V±2V		
iliverter illouer	P±3W	Isc	configuration	P±3W	Isc	configuration
SI22-D1-R75G	30W	2.75A	11*3	180W	7.33A	6*1
SI22-D1-1R5G	60W	3.48A	10*3	285W	9.41A	6*1
SI22-D3-R75G	30W	2.75A	17*2			
SI22-D3-1R5G	60W	3.48A	17*2	180W	7.33A	11*1
SI22-D3-2R2G	90W	5.5A	17*2	250W	8.92A	11*1

Note:

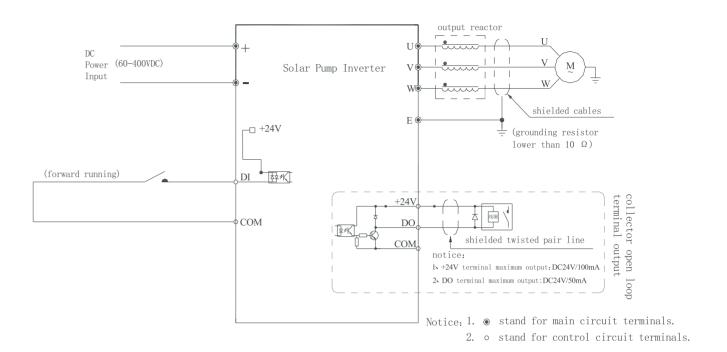
 $1. Total\ Voc\ of\ the\ recommended\ configuration\ should\ be\ at\ least\ 1.15\ times\ of\ bus\ voltage\ of\ inverter.$

As D1 type, the minimum Voc should be 110*1.414*1.15=178.8V $\,$ (180V) .

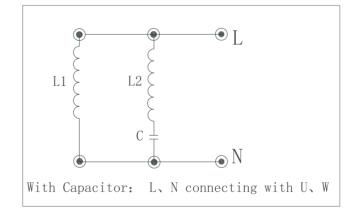
As D3 type, the minimum Voc should be 220*1.414*1.15=357.6V (360V).

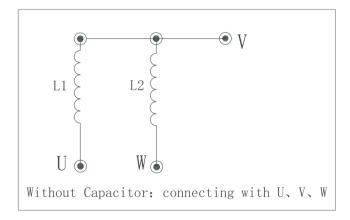
 $2.\, Total\, power\, of\, recommended\, configuration\, should\, be\,\, at\, least\, 1.2\, times\, of\,\, pump\, power.$

Standard Wiring for three phase motor



Wiring for single phase motor





Industry Applications











Farmland Irrigation

Landscape Fountain

Desert Management

Drinking Water

Pool Water Supply