

VEICHI

SI30 Series Solar Pump Inverter



Multiple Pump Protections



Smart IOT Platform



Voltage boost function



IP65 High Protection Level



Technical Specification

MODEL		D1	D3	D5
		PV Input		
Input voltage range		60~400V	150~450V	300~850V
Recommended Voc voltage		175~380V	360~430V	620~750V
Maximum MPPT efficiency		up to 99.8%	up to 99.8%	up to 99.8%
		AC Input		
Input voltage range		1PH 110V	1PH 220~240V	3PH 380~480V
Input voltage frequency		50/60Hz	50/60Hz	50/60Hz
		Output		
Output voltage range		110~230V	150~230V	230~460V
Output frequency range		0~599Hz	0~599Hz	0~599Hz
Output power range		0.75~1.5kW	0.75~2.2kW	0.75~11kW
Power		Rated output current		
0.75kW		7A	4A	2.5A
1.5kW		10A	7A	3.7A
2.2kW		-	10A	5A
4kW		-	-	10A
5.5kW		-	-	13A
7.5kW		-	-	17A
11kW		-	-	25A
Control Performance				
Motor type		Asynchronous motor, permanent magnet synchronous motor, synchronous reluctance motor		
Control mode		V/F control, open-loop vector control, closed-loop vector control, voltage-frequency separated control		
Overload capacity		150% of rated load for 60s, 180% of overload capacity for 10s, 200% of overload capacity for 0.5s		
System				
Installation		Hitch mounting		
Protection class		IP65		
Working temperature		-10~60°C		
Cooling method		Forced air cooling		
Humidity		20%~95%RH（condensation free）		
Installation environment		Altitude lower than 1000m. Derate 1% for each 100m rise when above 1000m.No condensation, icing, rain, snow, hail, etc., solar radiation below 700W/m2, air pressure 70kPa ~ 106kPa		
Protection				
Common potection	Undervoltage / overvoltage	√	√	√
	Input/output phase loss	√	√	√
	Overload	√	√	√
	Overcurrent	√	√	√
	Drive overheat	√	√	√
	Short circuit between phases and to ground	√	√	√
Specialized protection	Low frequency	√	√	√
	Pump overcurrent	√	√	√
	Dryout	√	√	√
	Min. power	√	√	√
	Overflow	√	√	√
	Sleep protection	√	√	√



SI23 Series Solar Pump Inverter



MPPT & multiple protection functions



AC110V/220V/380V various voltage selection



Apply to PMSM, AM motors



Hybrid input for solar & AC power

Technical Specification

MODEL		D1	D3	SS2	D5	T3
PV Input (D5 and T3 with suffix "H" support up to 850V input)						
Input voltage range		60~400V	150~450V	150~450V	250~780V	350~780V
Recommended Voc voltage		175~380V	360~430V	360~430V	620~750V	620~750V
Maximum MPPT efficiency		up to 99.8%	up to 99.8%	up to 99.8%	up to 99.8%	up to 99.8%
AC Input						
Input voltage range		1PH/3PH 110V	1PH/3PH 220V~240V	1PH/3PH 220V~240V	3PH 380~480V	3PH 380~480V
Input voltage frequency		50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Output						
Output voltage range		110~230V	150~230V	150~230V	230~460V	230~460V
Output frequency range		0~599Hz	0~599Hz	0~599Hz	0~599Hz	0~599Hz
Output power range		0.75~1.5kW	0.75~55kW	0.75~55kW	0.75~30kW	37~500kW
Power		Rated output current				
0.75kW		7A	4A	7A	3A	-
1.5kW		10A	7A	10A	4A	-
2.2kW		-	10A	16A	6A	-
4kW		-	16A	30A	10A	-
5.5kW		-	20A	42A	13A	-
7.5kW		-	30A	55A	17A	-
11kW		-	42A	-	25A	-
15kW		-	55A	-	32A	-
18.5kW		-	70A	-	38A	-
22kW		-	80A	-	45A	-
30kW		-	110A	-	60A	-
37kW		-	130A	-	-	75A
45kW		-	160A	-	-	90A
55kW		-	200A	-	-	110A
75kW		-	-	-	-	150A
90kW		-	-	-	-	180A
110kW		-	-	-	-	210A
132kW		-	-	-	-	250A
160kW		-	-	-	-	310A
185kW		-	-	-	-	340A
200kW		-	-	-	-	380A
Control Performance						
Control mode		V/F control, open-loop vector control, closed-loop vector control, voltage-frequency separated control				
Overload capacity		150% of rated load for 60s, 180% of overload capacity for 10s, 200% of overload capacity for 0.5s				
System						
Installation		Hitch mounting				
Protection class		IP20				
Working temperature		-10~60℃				
Cooling method		Forced air cooling				
Humidity		20%~95%RH (condensation free)				
Installation environment		Altitude lower than 1000m. Derate 1% for each 100m rise when above 1000m.No condensation, icing, rain, snow, hail, etc., solar radiation below 700W/m2, air pressure 70kPa ~ 106kPa				
Protection						
Common potection	Undervoltage / overvoltage	√	√	√	√	√
	Input/output phase loss	√	√	√	√	√
	Overload	√	√	√	√	√
	Overcurrent	√	√	√	√	√
	Drive overheat	√	√	√	√	√
	Short circuit between phases and to ground	√	√	√	√	√
Specialized protection	Low frequency	√	√	√	√	√
	Pump overcurrent	√	√	√	√	√
	Dryout	√	√	√	√	√
	Min. power	√	√	√	√	√
	Overflow	√	√	√	√	√
	Sleep protection	√	√	√	√	√



VEICHI

SI21 Series Solar Pump Inverter



Multiple protections for pump



Mini size & powerful software



Easy wiring and installation



AC/DC power input

Technical Specification

MODEL		D1	D3	D5
		PV Input		
Input voltage range		60~400V	150~450V	250~780V
Recommended Voc voltage		175~380V	360~430V	620~750V
Maximum MPPT efficiency		up to 99.8%	up to 99.8%	up to 99.8%
		AC Input		
Input voltage range		1PH/3PH 110V	1PH/3PH 220~240V	3PH 380~480V
Input voltage frequency		50/60Hz	50/60Hz	50/60Hz
		Output		
Output voltage range		110~230V	150~230V	230~460V
Output frequency range		0~599Hz	0~599Hz	0~599Hz
Output power range		0.75~1.5kW	0.75~2.2kW	0.75~22kW
Power		Rated output current		
0.75kW		7A	4A	3A
1.5kW		10A	7A	4A
2.2kW		-	10A	5A
4kW		-	-	9.5A
5.5kW		-	-	13A
7.5kW		-	-	17A
11kW		-	-	25A
15kW		-	-	32A
18.5kW		-	-	38A
22kW		-	-	45A
Control Performance				
Motor type		Asynchronous motor, permanent magnet synchronous motor, synchronous reluctance motor		
Control mode		V/F control, open-loop vector control, closed-loop vector control, voltage-frequency separated control		
Overload capacity		150% of rated load for 60s, 180% of overload capacity for 10s, 200% of overload capacity for 0.5s		
System				
Installation		Hitch mounting		
Protection class		IP20		
Working temperature		-10~60℃		
Cooling method		Forced air cooling		
Humidity		20%~95%RH (condensation free)		
Installation environment		Altitude lower than 1000m. Derate 1% for each 100m rise when above 1000m.No condensation, icing, rain, snow, hail, etc., solar radiation below 700W/m2, air pressure 70kPa ~ 106kPa		
Protection				
Common potection	Undervoltage / overvoltage	√	√	√
	Input/output phase loss	√	√	√
	Overload	√	√	√
	Overcurrent	√	√	√
	Drive overheat	√	√	√
	Short circuit between phases and to ground	√	√	√
Specialized protection	Low frequency	√	√	√
	Pump overcurrent	√	√	√
	Dry run	√	√	√
	Min. power	√	√	√
	Overflow	√	√	√
	Sleep protection	√	√	√

