

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	√	√	√	√	√

