

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	0~600Hz	0~600Hz	0~600Hz	
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°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 protection	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	√	√	√

