

TECHNICAL SPECIFICATIONS

SN	PARAMETERS	SPECIFICATION			UNIT
		MIN	TYP	MAX	
1	Models	1 / 2 / 3 / 5 / 7.5 / 10			HP
ELECTRICAL					
2	Solar Input Voltage - 1HP Pump	75	116 Vmp	148 Voc	VDC
	- 2~5HP 230VAC Pump	150	290 Vmp	370 Voc	VDC
	- 2~5HP 415VAC Pump	250	380 Vmp	450 Voc	VDC
	- 7.5~10HP 415VAC Pump	250	430 Vmp	600 Voc	VDC
3	Rated Output Voltage	100	-	380	VAC
4	Rated Output Frequency	18 to 50			Hz
5	Solar Panel Required per HP	800	1000	1200	W/HP
6	Motor Type	Asynchronous / Induction / Synchronous motor			
7	Control Technology	MPPT based V/F PWM			
8	Motor Driving Method	H-Bridge with PWM signal for variable frequency and variable voltage			
9	Frequency Resolution	0.1			Hz
10	LPD	Better than MNRE specifications			
11	Inverter Efficiency	Better than 95% at full load			%
12	Overload Capacity	110% for 5 Minutes, 150% for 1 second			
13	MPPT	Inbuilt			
14	Early wakeup & late shut down	Available. Better result with 1200W panel / HP			
15	1-P Input connection (Optional)	Hybrid Model with 230VAC pump available for 1 ~ 5HP			



Four Solar Energy Systems Pvt. Ltd.

6-3-1109/1, 4th Floor, Jewel Pawani Tower, Raj Bhavan Road, Somajiguda, Hyderabad-82, Telangana.

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Solar Water Pump Controller

16	3-P Input connection (Optional)	Hybrid Model with 415VAC pump available for 3~10HP	
ENVIRONMENTAL			
17	Operating Ambient Temperature	-20 to 50	°C
18	Storage Temperature	-40 to 80	°C
19	Humidity	up to 95% RH	
20	Cooling	Force Air Cooling	
21	Altitude	< 1000	Meters
22	Audible Noise Level	< 80	dB
MECHANICAL			
23	IP Rating	Electronics IP54, Wall Mounting	
24	Dimensions	D=200, L=350, H=450 MM	
25	Weight (Approximately)	< 20 Kg	
26	Color	Siemens Gray	
TRIP / PROTECTIONS			
27	Input Low	Provided	
28	Input Over Voltage	Provided	
29	Overload	Provided	
30	Short Circuit	Provided	
31	Any Phase Open	Provided	
32	Over Temperature	Provided	
33	Dry Run	Provided	
34	Tank Water Level Full	Provided	
LCD DISPLAY PARAMETER (2 x 16 Character LCD Display)			
35	Input PV Voltage	Provided	
36	Input PV Current	Provided	
37	Input Power Generation	Provided	



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38	Output Voltage	Provided
39	Output Current per phase	Provided
40	Output Frequency	Provided
41	System Temperature	Provided
42	All Trip (SN. 27 to 34)	Provided
LED DISPLAY WITH ALARM		
43	Pump On	Provided
44	Overload	Provided
45	Output Short	Provided
46	Phase Open	Provided
OPERATIONAL		
47	Operational Mode	Auto, Manual
48	Control Switches	Pump On, Pump Off, Water Force Adjustment
49	Connectors	a) 2-Pin Screw Type for PV Input b) 3-Pin Screw Type for Grid Input c) 3-Pin Screw Type for Pump d) 5-Pin Screw Type for Water Level
50	Remote Monitoring (Optional)	SMS on preprogrammed mobile in English languages Or SMS to web server using Static IP Or GPRS date Or Mail to pre-programmed Mail ID.



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