

**1 $\phi$  –SOLAR WATER PUMPING SYSTEM WITH MPPT VFD–230V**

Technical Specification			
Model		3HP	4HP
Description			
Input (AC)	Voltage	200V–230V	
	Current	19A/27.2A	26A/32A
	Frequency	50–60Hz	
	Phase	1 $\phi$	
	Input Under Voltage	150V	
	Input Over Voltage	490V	
	Input Over Current	150%	
Input (SPV)	Minimum Voltage	150V	
	Maximum Voltage	490V	
	MPPT Voltage Range	150–450V	
	MPPT Efficiency	$\leq 98\%$	
Output VFD	Voltage	0–SPV input	
	Current	9.5A/11A	13A/13.6A
	Frequency	0–60Hz	
	Phase	3–Phase(U, V, W)	
	Output Power(KWp)	2.2KW	3KW
Protections	Dry Run Protection	Required	
	Load Failure detection	Required	
	Output Short–circuit Protection	Required	
	Reverse Polarity of PV	Required	
	Forced Ventilation	Natural Cooling & Fan Required	
	Control Panel(Fabrication Box)	IP20 Required	
	Auto Restart	Under & Over Voltages, Output Short Circuit	
Display	VFD Output Frequency	Displayed in LCD/LED	
	VFD Output Voltage	Displayed in LCD/LED	
	VFD Output Current	Displayed in LCD/LED	
	AC Input Voltage	Displayed in LCD/LED	
	Ac Input Current	Displayed in LCD/LED	
	SPV Input Voltage	Displayed in LCD/LED	
	SPV Input Current	Displayed in LCD/LED	
Motor Specifications	Voltage	230V	230V
	Current	9A	9A
	Frequency	50HZ	50HZ
	Cos $\phi$	0.8	0.8
	RPM	2840	2840
SPV Module Specifications	Array Power(KWP)	2500WP	3000WP
	Module( WP)	250W–10NO'S	250–12NO'S
	Voc (Total)	380V	456V
	Vmp(Total)	300V	360V
	I <sub>mp</sub>	8.33A	8.33A
Overall	Temperature	0–50°C	
	Humidity	0–95% Non Condensing	
	Dimensions (LxWxH)mm		
	Weight		

\*\*\* Due to Continuous Development Specifications is Subject to Change without Notice.