

TECHNICAL SPECIFICATION SOLAR PUMP SET

Water Output (Litres/day/Wp) at 5.5 Kwh/m ² /day on the horizontal surface: i) at 7 m suction head and 10 m total dynamic head OR ii) 30 m total dynamic head for deep well pumping systems iii) Any other (litres/day)	77 Ltrs/day/Wp
Average daily water out put at the above mentioned dynamic head conditions (litres/ day)	139000.00 Ltrs
PV array rating (Wp) at STC	1800 Watts
No. of modules in the PV array	75 Wp x 24 Nos.
Series Parallel combination of the modules in the array	Four in series and Six in parallel
PV array nominal operating current & voltage	26.5 Amps and 68 V
PV array mounting arrangement (Fixed/Tracking)	
Type of Pump & Capacity (Watts)	Surface Centrifugal pump, 1500 Watts
Rating and efficiency of inverter/electronics used (if any)	
Minimum operating voltage at which system starts water delivery	35 V
Overall efficiency of the SPV Water Pumping System (Please enclose Performance curve under different operating conditions.	

DETAILS OF MOTER PUMP SET

Type of Pump: DC Surface Centrifugal Pump	
Type of Motor	Brushed DC Motor
Max. Suction Head (in meters)	7 m
Max. Dynamic head (in meters)	10 m
Pump Capacity (watts)	1500 Watts
Optimum operating voltage	60V DC
Voltage range in which pump will continue to lift water	35-75 V
Efficiency of inverter if any	
Efficiency of the motor-pump set (Performance curve at different operating voltage and heads enclosed)	