

Project Capacity Report on 2HP Solar submersible pump by Solar Universe India



Location: Sec-135 Flora form house Uttar Pradesh India

Type of Application: Pumping water from borewell to tank grass and plants of form house.



Type of pump: 2Hp 3phase Borewell Submersible Pump

Total Area in acres: acres

Bore Depth: 2hp erected at 60ft

Distance between Borewell and Solar Panel: 7m

Distance between Borewell and storage tank: 2m

Peak Discharge: 55LPM & 45Lpm (Low discharge models chosen due to low bore yield)

Average Start Time: 8.40AM

Average Stop Time: 5.10PM

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Type of Solar Panels: 2000Watts Poly-Crystalline- Class A Panels (72 cells / 24V / 250Wp)

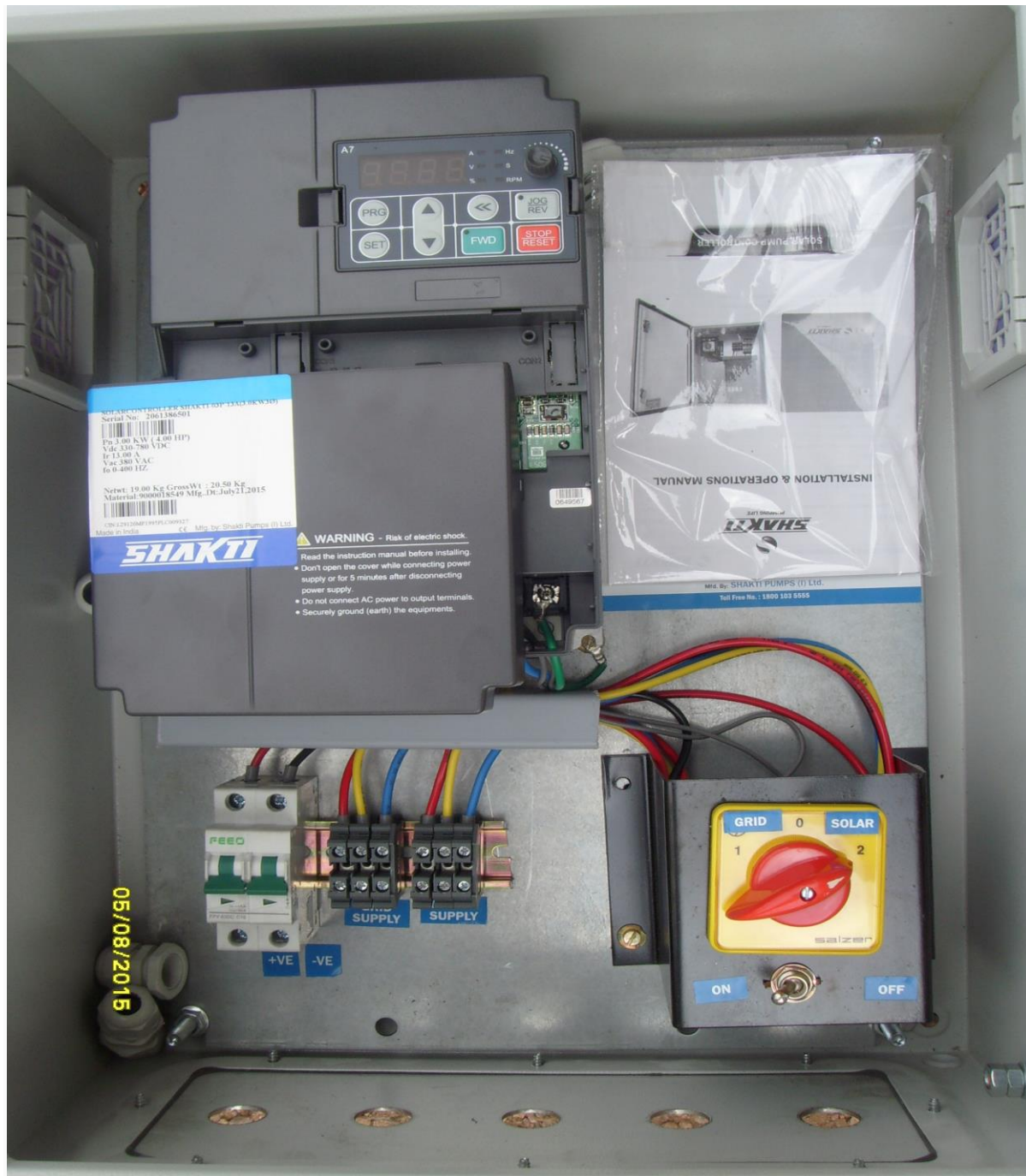


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Solar Charge Controller 2HP,10A(1.50Kw,1 ϕ)

P_m-1.5.00KW (2.00HP),V_{dc}-192-450VDCI_r-10.00A, V_{ac}-230VAC , Net Weight -13.00Kg



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Mounting: Fixed robust structure well painted by corrosion free paint



This project is developed after understanding the water requirement of the customer, who wanted to drip irrigate land of form house and fill tank for their use.

The water from borewell is pumped to the farm pond using 2hp pump. in the tank pumps water @ 25m head to the drip lines.

The first few seconds shows the frequency 30 and goes up to 50Hz at full capacity, pump current drawn 4.6A, Motor Voltage 196V i.e 100% full rated performance at 11:30Am time stamp.

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