

Dear Sir/ Madam

Ref: Your mail & RFQ for Lorentz make Solar Water Pump-

Thank you for the interest shown in our products.

In order to size and suitably select a Pump that will meet the expected requirements; kindly help us with the below information at the earliest,

1. Source of water:: Open well/ Pond/ Bore (ID required)
2. Total Dynamic pumping head. Please see a picture to assist. You in identifying terms and required data.
3. Desired average minimum water qty in Liters/Day or m3/ day
4. Location to install this pump- place name/latitude-Longitude, state, district etc.
5. Qty required in one lot
6. Any additional information you may like to provide such as for drinking water/Agriculture-In Agriculture whether for Drip irrigation/to storage tank?
Installation site details as you may know to get an idea of space availability.

LORENTZ COMPASS 2.5.0.4

Project	Pump system	PV generator	ETATRACK	Cable	Pipe	Head	Flow	I/Wp
New project	PS1800 C-SJ5-12	1,080 Wp (4x1 GB82P6-270)		4mm ²		20...70 m	30 m ³	28

Solar data

Country, city	Pump system	PV generator	Cable	Head	Flow	I/Wp
India	PS1800 HR-23	1,080 Wp (4x1 GB82P6-270)	4mm ²	20...80 m	28 m ³	26
Pune	PS1200 C-SJ5-8	1,120 Wp (4x1 GB72P6-280)	4mm ²	10...40 m	28 m ³	25
	PS600 C-SJ5-8	1,380 Wp (3x2 GB60P6-230)	6mm ²	10...30 m	31 m ³	22

System layout

Total dynamic head: 30 m
Motor cable length: 35 m
Pipe length: 35 m

PV generator

Tilt angle: 18 deg
Dirt loss: 5.0 %

Pump sizing

Required daily flow: 30 m³
Average
Submersible pumps

Diagram Labels: PV generator, Tilt angle, PV cable, Controller, Motor cable, Ground level, Static head, Static water level, Drawdown, Dynamic water level, Pump unit, Casing diameter, Bottom of the well.

Definitions:
Total Dynamic Head (TDH): Static head plus friction losses.
Static head: Vertical height from the dynamic water level to the highest point of delivery.
Friction losses: Pressure losses in the pipeline as height of a water column with the equivalent pressure. Proportional to the length, diameter, surface of the pipe and the square of the flow rate.
Pump unit: Pump end and motor.
Motor cable length: Cable length from the pump unit to the controller.
PV cable length: Cable length from the controller to the PV generator.
Pipe length: Complete pipe length from the pump unit to the point of delivery.
Tilt angle: Angle between the PV generator pane and the horizontal pane.

We trust you will find this in order,
Awaiting to read from you,

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