

Surface Water Pump System – up to 4,000** GPD



1 Solar Panels – Only two 300w (36v) panels connected in parallel.



Our Patented Controller Technology Gets More From Solar Panels

Circuit-level MPPT manages variable input, so even on cloudy days, when other pumps stop – the SMS pump keeps running!

2 Smart Controller

Patented technology stabilizes the voltage to produce clean AC power for quiet, smooth, low-heat operation.



Standard DC Solar Wiring Connectors

Accommodates Standard Float Switch

Standard 3-Phase Electric Wiring

Pump Position: For optimal performance position the pump at, or slightly below, the Static Water Level, up to no higher than 4m/13ft above it.

Static Suction Head
Max: 4m/13ft

Suction Pipe (1" PVC)

Static Water Level

Note:
Static Water Level to Permissible Operating Head = Total Dynamic Head (TDH).

Strainer

Integrated Check Valve

Discharge Pipe (1" PVC)

Check Valve

Permissible Operating Head
Max: 60m/196ft



Discharge Flow Rate

At 8m/25ft Head = 2,301LPH / 608GPH
Example: 6.8 hrs sun = 4,134 gallons p/day
At 19m/64ft Head = 1,996LPH / 527GPH
Example: 6.8 hrs sun = 3,583 gallons p/day

3 SMS Solar Powered Pump

This 3-phase unit is the only .5HP pump of it's kind. Designed for commercial-duty surface water pumping, the patented motor is more reliable, lighter and requires less maintenance than single phase or DC motors.

1 Solar Panels: Power the system with ONLY two 300w conventional panels.*

2 Smart Controller: Advanced FPGA controls enables a wide range of customizations; built-in soft-start, circuit-level MPPT, auto-restart, voltage overload, thermal protection, torque slip management ... and more! The compact and durable case connects to the pump in minutes using simple, standard connections.

3 SMS Pump: Commercial-grade durability, brush-less and with no capacitors to wear out. Easily set up for continuous daytime running or using a standard float switch.

Pump More Surface Water with Fewer Panels: Patented technology means the pump starts earlier in the day (with less light) and runs later. By managing variable light the unit runs longer and pumps more water.

* **Note:** Solar panels are available in many wattage/voltage configurations. Check with your SMS dealer to determine options. The SWP system requires a min. of 31volts and accepts a max. of 45volts.