



HYPER EFFICIENT SOLAR WATER PUMPING SYSTEMS **SERIAL 8000** STAINLESS STEEL 100% up to 110 m³ water per hour and up to 295 m head (967 ft)

1. Some advantages of ATLANTS SERIAL 8000 SOLAR WATER PUMPS: Graphite bearings of pumps are water lubricated, so there is no danger of water contamination from oil or grease. We can also provide oil filled solar water pump if you need.
2. Controller and motor have been designed to complement each other which results in efficiencies of up to 90%, 25% more efficient than traditional AC pumps.
3. A set of sensors also shut the pump off if the water supply level gets too low to prevent the pump from running dry and a tank level sensor that automatically switches the pump on and off. It also has function of time delay. If there is not enough water in well, a water level sensor will cut the pump from working. Then it will have 30 mins delay to let the water recover to a high level. This function can protect pump from frequent start and stop.
4. Atlants control box has numerous features to protect the pump from being damaged such as over and under voltage protection, overload protection, overcurrent protection and etc. It has function of speeder regulator. You can regulate the speed of motor to controller the flow of pump among a certain range. Our solar water pump has slow and soft start process. It is for protecting motor from sudden current.
- 5. Wide range of models for pumping up to 110 m³ water per hour and up to 295 m head (967 ft.)**
6. Special stainless steel construction for longer and more efficient performance in any climate
7. Pump power from 0.5Kw to 3Kw – Dc voltages 36V – 300V
8. It adopts lightning protection, waterfilling, permanent magnet, brushless DC, and non-sensor shielding motor, and MPPT (maximum power point tracking) driving device, and motor efficiency reaches over 90%.
9. Full-automatic operation, unmanned guarding, apply to photovoltaic direct power supply (storage battery power supply)
10. Product Use: Household water, deep well water, vehicles, ships, reverse osmosis pure water machines, water treatment equipment, filters, spraying devices, purification equipment, cooling systems, and other industries.





**ATLANTS HYPER EFFICIENT SOLAR WATER PUMPING SYSTEMS SERIAL 8000 ,
100% STAINLESS STEEL**

DC PUMP VOLTAGE	REF	MOTOR PUMP POWER WATTS	SOLAR SYSTEM TOTAL WATTS	MAX FLOW M3/H	MAX HEAD	Outlet Inch
Centrifugal type 4" STAINLESS STEEL impeller pump with 4" water filled motor						
36	ATL-8000BS2-4	500	660	4,5	50	1.25"
72	ATL-8000BS2-7	700	920	5	75	1.25"
110	ATL-8000BS2-15	1100	1440	5	106	1.25"
150	ATL-8000BS2-18	1500	1920	5,5	145	1.25"
220	ATL-8000BS2-24	2200	2860	6	183	1.25"
300	ATL-8000BS2-28	3000	3900	7	260	1.25"
36	ATL-8000BS3-2	500	660	5	35	1.25"
72	ATL-8000BS3-5	700	920	5,3	54	1.25"
110	ATL-8000BS3-12	1100	1440	5,5	100	1.25"
150	ATL-8000BS3-13	1500	1920	6	123	1.25"
220	ATL-8000BS3-18	2200	2860	6,5	144	1.25"
300	ATL-8000BS3-22	3000	3900	6,8	175	1.25"
72	ATL-8000BS5-3	700	920	9	32	1.5"
110	ATL-8000BS5-7	1100	1440	9,5	75	1.5"
150	ATL-8000BS5-10	1500	1920	10	102	1.5"
220	ATL-8000BS5-14	2200	2860	10,5	128	1.5"
300	ATL-8000BS5-18	3000	3900	10,5	158	1.5"
72	ATL-8000BS8-2	700	920	11	30	2"
110	ATL-8000BS8-4	1100	1440	11,5	45	2"
150	ATL-8000BS8-6	1500	1920	12	57	2"
220	ATL-8000BS8-10	2200	2860	12,3	87	2"
300	ATL-8000BS8-12	3000	3900	12,5	105	2"
110	ATL-8000BS14-2	1100	1440	19	24	2"
150	ATL-8000BS14-3	1500	1920	20	33	2"
220	ATL-8000BS14-5	2200	2860	21	51	2"
300	ATL-8000BS14-6	3000	3900	22	62	2"
300	ATL-8000BS2-26	3000	3900	8	295	1,25"/2"
Centrifugal type (6" Stainless steel impeller pump with 4" water filled motor)						
220	ATL-8000BS17-2	2200	2860	26	36	3"/4"
300	ATL-8000BS17-3	3000	3900	28	48	3"/4"
220	ATL-8000BS30-1	2200	2860	50	18	3"/4"
300	ATL-8000BS30-2	3000	3900	52	32	3"/4"
300	ATL-8000BS46-1	3000	3900	90	20	3"/4"
300	ATL-8000BS60-1	3000	3900	110	18	3"/4"

Water is essential for life, good health and economic development -yet more than one billion people lack access to clean water. Each year, millions are embroiled in conflicts over its scarce availability.

The stark reality.

Transformation
Water is Life. Since the birth of civilization, people have moved and settled close to water, moved when there is too little of water, journey down water, write, sing and dance about water. Today millions live without water, a basic human right. Lack of water promotes misery, famine, poverty, thirst and reliance on others. No water, no future, certain death.

Power
Our systems transform energy of the sun. This energy generates power to run the ATLANTS pumping systems automatically, without efforts. They can provide water in multiple quantities, portability, flexibility, and self-reliance to the most remote areas of the globe. There is no limit to the power of the sun.

Independence
People need water, for drinking, cooking, washing, food, industry, transport, energy, rituals, fun, for life, and it is not only we humans who need it; all life is miles, and is dependent on water to survive. We cannot survive without water. ATLANTS makes it possible towards obtaining self-reliance and independence. Water is a basic human right.

Hope
Hope. Is a short word, but with HUGE meaning. People live in hope, but in reality they live in despair. Access to water, daily is the difference between life or death, hope or helplessness.

Fact: almost a third of the world population does not have easy access to water drinking on a daily basis

We can help to solve de problem

Solar pump makes use of the solar energy to pump, clean, no pollution, simple and convenient. It solves the problem of agriculture irrigation, people and livestock's water supply and frontier defense sentry water supply in the region where there is no water and no electricity. This product can automatically work at sunrise and stop at sunset without manpower. It is a high-technology green product with credibility and environment-protected. And systems are easy to install, PV pumping system can be connected to existing wells and pumps or installed quickly in new well. The technology is very easy for most wells and much deeper well to apply.

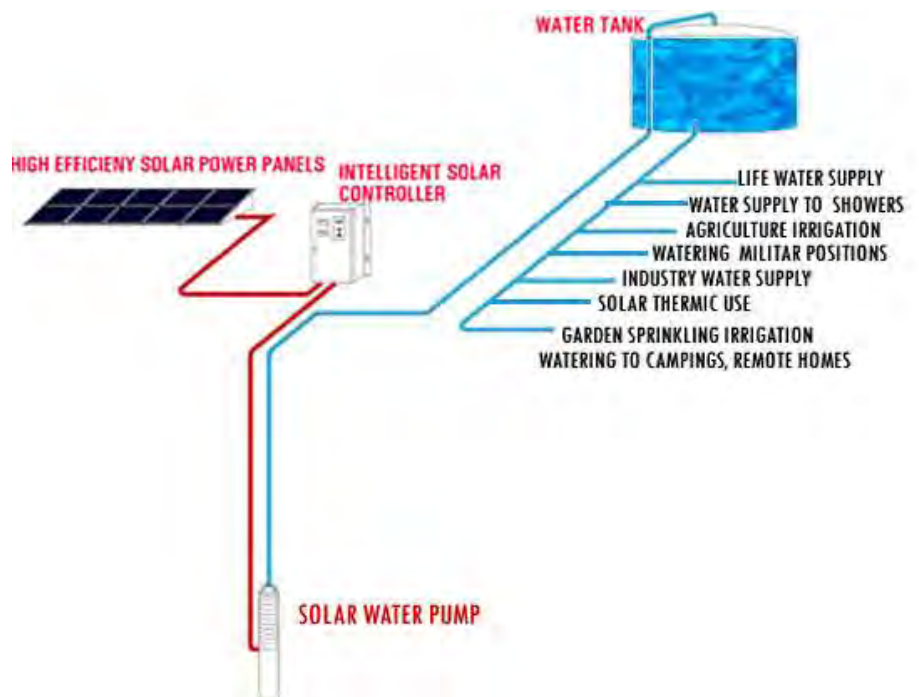
INTRODUCTION

Features and benefits

- Fully made in 304SS for long durarion
- Dry-running protection
- High efficiency
- Overvoltage and undervoltage protection
- Overload protection
- Overtemperature protection
- Maximum Power Point Tracking (MPPT) in option
- Wide voltage range
- Reliability

Application

1. Drinking water supply
2. Livestock watering
3. Pond management
4. Irrigation
5. Fountains



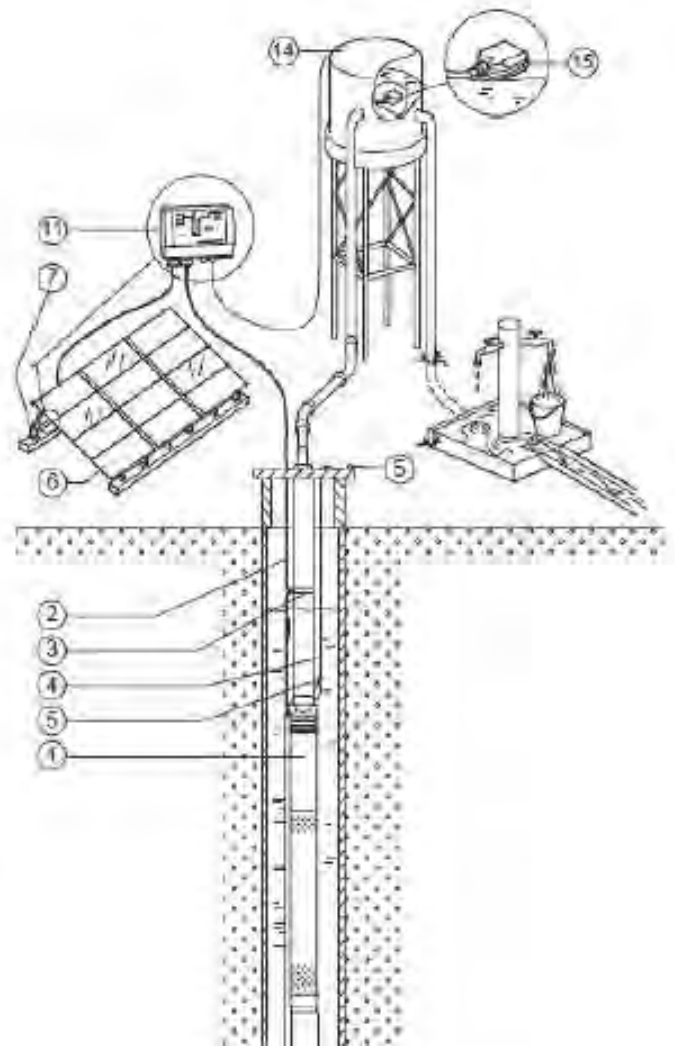


Components of one solar pumping system

1. ATLANTS hyper efficient solar pump
2. Submersible drop cable
3. Cable clips
4. Straining wire
5. Wire clamp
6. Solar panels
7. Support structure
8. Controller box
9. Tank /water pipe/other
10. Level sensors

Advantages

1. Easy to install
2. Maintenance confined to periodic cleaning of the solar panels
3. Few and simple components with long life span
4. The protective circuit incorporated in the motor electronic unit cuts out the pump in case of dry running or similar situations. By using the controller switch, the power supply to the pump can be closed manually, for example when there is no need for water supply or the system requires service.



ATLANT 8000 serials Solar Pump System

The system is a reliable water supply system based on solar power sources, and the system incorporates an effective submersible pump. Very flexible as to its energy supply and performance, It can be combined and adapted to any need according to the conditions on the installation site.

Pump : Wide range as per client 's needs

The pump range comprises two pump technologies:

- The helical/screw rotor pump .
- The centrifugal pump .

The performance curves above the pump performance for some main pump models. All pump types are made of stainless steel DIN W.-Nr. 1.4301 / DIN W.-Nr. 1.4401.

Motor: The motor has been developed specifically for the solar pump system and is designed according to the Permanent-magnet principle Brushless DC made made of stainless steel DIN W.-Nr. 1.4301 / DIN W.-Nr. 1.4401.

Supply voltage

Flexible as regards power supply and power range, the motor can be supplied with either DC 36-300 VDC

Solar modules: PVS solar modules have been developed specifically for the pump system. The solar modules are equipped with plugs and sockets enabling easy connection in parallel. Atlants ONLY use high efficiency mono or polycrystalline solar pannels with efficiency +16%. For further information on solar modules please see ATLANTS informations concerning this product.

Pumped liquids: The pumps are applicable in non-aggressive, non-explosive liquids, not containing solid or long-fibred particles larger than sand grains. PH value: 5 to 9. Liquid temperature: 0°C to +40°C.

Sand content : Maximum sand content: 50 g/m³. A higher sand content will reduce the pump life considerably due to wear. Pumps can be used with salty water but it may reduce life span of pump like in all other pumps

Curve conditions: The Solar performance range shown on the introduction based on

- Solar radiation on a tilted surface (tilt angle of 20°) . HT = 6 kWh/m² per day . Ambient temperature: +25°C

Specific performance charts : The specific performance charts are based on the following guidelines

- All curves show mean values.
- The curves must not be used as guarantee curves.
- Typical deviation: ±15%.
- The measurements have been made at a water temperature of +20°C.
- The curves apply to a kinematic viscosity of 1 mm²/s. If the pump is used for liquids with a viscosity higher than that of water, this will reduce the head and increase the power consumption.

Pressure loss : The QH curves are inclusive of inlet and valve losses at actual speed

