



# Solar Pumping Systems

Complete Off-Grid water pumping solutions with modules, pump and mounting system



FuturaSun®

anticipate tomorrow

## GENERAL FEATURES

Including **FuturaSun PV modules** and **Made in Italy drivers, pumps** and **supporting structures**, this is a complete and intelligent system. It offers the perfect **water supply solution in remote areas** where water is scarce and the power supply is non-existent or unreliable.

Thanks to its built-in electronics, the **pump is compatible with both DC and AC power** supply and does not require an external inverter.

The pump operates only during the day and **stops automatically at sunset** or when the level switch indicates full reserve.

If requested, a battery backup system can store and use the generated extra energy, when the energy from nature is not available.

A **range of 4 pump systems** is available, depending on pressure and flow rate.

## COMPONENTS

**250 Wp PV modules  
FU 250 P**



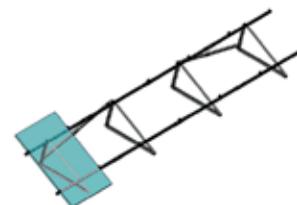
**One solar pump**



**One Multi Island  
control unit**



**Mounting System**



## APPLICATIONS

The system is suitable for applications in remote locations:

- Villages, schools, hospitals, small houses
- Farms and irrigation of greenhouses
- Conservation areas

## BENEFITS

- Renewable energy supply
- Built-in electronics, easy installation
- Reliable water supply
- Low operating costs
- Dry-run protection

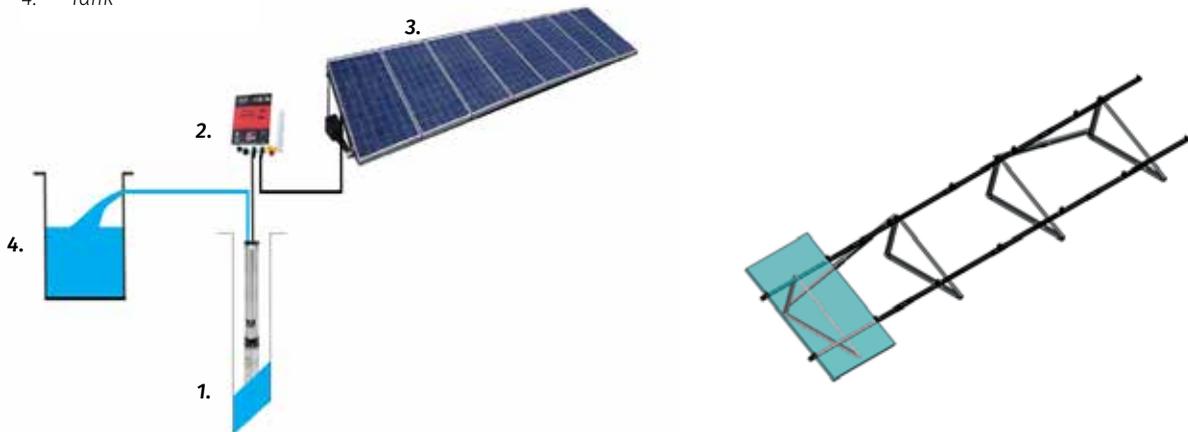
## WATER FLOW CAPACITY

FuturaSun offers a range of four solar pumping systems complete with modules, pump, control unit and also the mounting system for the PV panels. The system water flow capacity varies according to the pump installation depth, as shown below.

Futura Solar Pump Kit	No. Modules FU250P	Pump motor kW	WATER FLOW CAPACITY													
			l/min	11.7	15.0	20.0	25.0	28.3	31.7	35.0	41.7	48.3	55.00	63.3	71.7	80.0
			m <sup>3</sup> /h	0.7	0.9	1.2	1.5	1.7	1.9	2.1	2.5	2.9	3.3	3.8	4.3	4.8
HEAD (DEPTH IN METERS)																
Futura solar pump 8	8	0,75		86	83	78	72	68	60	50	40					
Futura solar pump 10	10	1,5		178	172	164	153	140	126	108	90					
Futura solar pump 20	20	2,2		247	237	224	208	189	170	147	120					
Futura solar pump 22	22	3				217	212	208	202	196	189	170	149	120	87	50

1. Pump
2. Control unit
3. FuturaSun PV modules
4. Tank

Flat roof/ground mounting system for 8/10/20/22 PV modules, angles of inclination: 30°, materials: structure in hot-dip galvanized steel and fasteners in stainless steel



FuturaSun solar pumping system in Africa, installed in 2014, 1.2 kWp PV power