



SOLAR WATER PUMP



SOLARWATER is a submersible continuous current pump – low power and high performance pump that may be fed with 24V and 48V, with current absorption of 1A and 6A adapted to the pumping heads of (10 to 175 meters).

The solar water pump works based on a patented system of opposed pistons driven by cams in oil bath connected to a continuous current motor with permanent magnets and special long-life brushes, fully sealed and isolated from water.

The solar water pump is available in three variants for different flow rate and depth.

The solar water pumps may be fed directly by 4 solar panels connected in series (12V-80W) and 2 solar panels connected in series (12V-170W each), or by 1 or 2 panels with nominal voltage 24V connected in parallel.

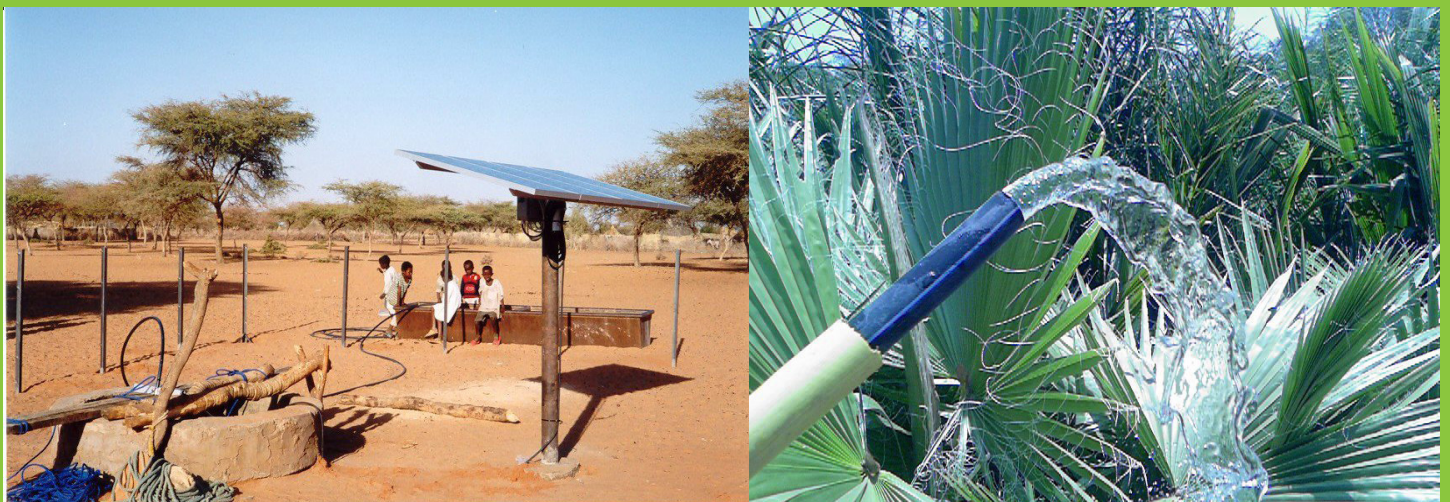
The pump comes with an electronic protection and control unit - MK3/MK6 controller.

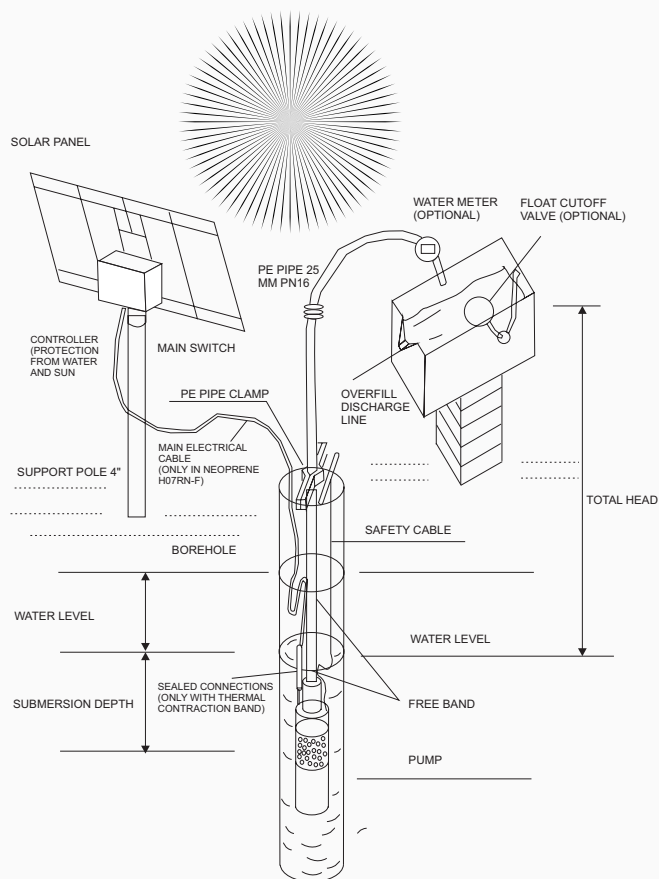
The pump discharge rates vary between 3.000/1.980/6.300 and 8.500/10.050/15.300 litres a day.

The pump has a diameter of 98 mm and is long between 760 mm and 1.040mm, it weighs 13/14/18 kg.

The pump is provided with a quick connection for PE pipes sized 25 mm.

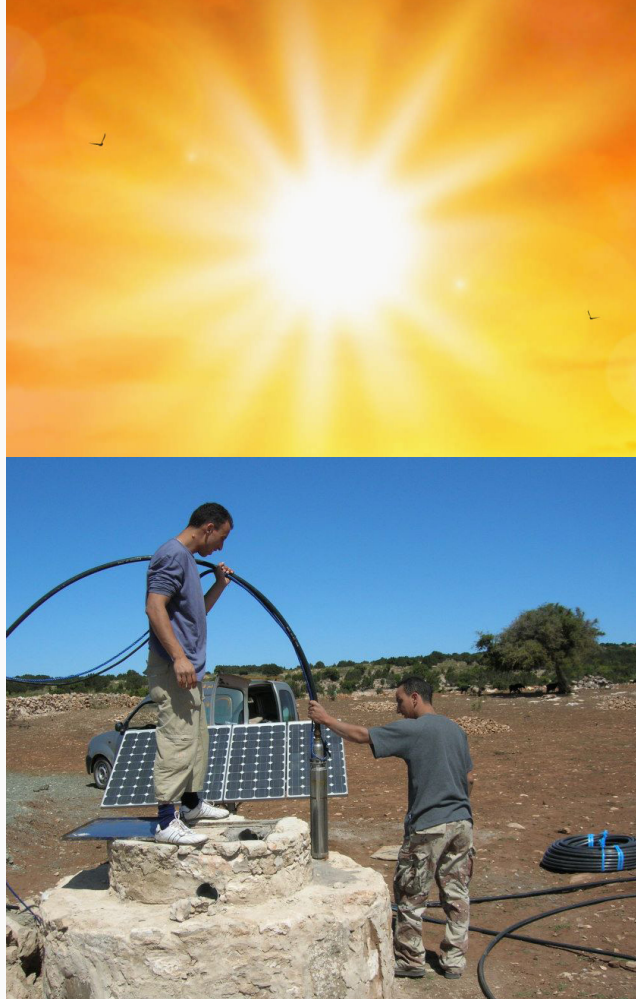
The pump has been designed for pumping water with normal chemical composition at surrounding temperature; it is possible to adapt the pump for salty water or moderately aggressive water by adding an anticorrosion kit (zinc anode).





TECHNICAL DATA	SOLAR WATER MINI	SOLAR WATER MEDIUM	SOLAR WATER MEDIUM
Max immersion level of the solar water pump	Max 75 m	Max 175 m	Max 75 m
Flow rate	Max 8.500 lt/day	Max 10.050 lt/day	Max 15.300 lt/day
vmp	24/48 V	48 V	48 V
Pump type	Pistons	Pistons	Pistons
Watt	Max 320 W	Max 500 W	Max 500 W
Safety	Electronic controller MK 3	Electronic controller MK 3	Electronic controller MK 6
Current draw	Between 1A/4A	Between 2A/6A	Between 2A/6A
Dimensions	Diameter 98 mm Length 760 mm Weight 13 kg	Diameter 98 mm Length 890 mm Weight 14 kg	Diameter 98 mm Length 1.040 mm Weight 18 kg
Depth Meters	SOLAR WATER MINI Panels 4 x 80W	SOLAR WATER MEDIUM Panels 2 x 270W	SOLAR WATER MAXI Panels 2 x 270W
10	8.500 liters/day 1.060 max liters/hour	10.500 liters/day 950 max liters/hour	15.300 liters/day 1.480 max liters/hour
25	5.300 liters/day 660 max liters/hour	5.600 liters/day 500 max liters/hour	11.000 liters/day 1.210 max liters/hour
40			9.300 liters/day 1.060 max liters/hour
50	4.300 liters/day 540 max liters/hour	5.040 liters/day 475 max liters/hour	8.200 liters/day 980 max liters/hour
75	3.000 liters/day 375 max liters/hour	4.300 liters/day 410 max liters/hour	6.300 liters/day 800 max liters/hour
100		3.600 liters/day 350 max liters/hour	
150		2.240 liters/day 240 max liters/hour	
175		1.980 liters/day 230 max liters/hour	

The tables show possible typical daily summer capacities at latitude 40° North, with a daily insolation of at least 7.0 kwh/m²/day. Capacities in winter (with an insolation around 5.2 kwh/m²/day), are approximately 73% of the summer capacities.



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