

# 3HRSS-H Solar Pump



**WATERBOY**  
SOLAR PUMPING SOLUTIONS



WATERBOY solar pump systems offer state of the art solar pump technology at a very competitive price. Highly reliable and durable, WATERBOY solar pumps and controllers are backed by a 2 year warranty, designed to withstand our harsh Australian water and incorporate the best features of all the solar pumps on the market and compress all this technology into a compact, robust & highly efficient pumping system.

The pump and motor assembly is 316 stainless steel. The 3HRSS-H submersible pump uses a helical rotor wet end coupled to a brushless DC motor. The motor is electronically communicated to by a fully adjustable MPPT pump controller housed in a weather proof enclosure on the surface for easy installation, access and operation.

The WATERBOY 3HRSS-H pump systems consist of a submersible pump and motor combination that is 3" (76mm) in diameter, the helical rotor (HR) pump provides superior lift and efficiency even at low speeds and flow rates.



## Features

- Brushless DC motor
- Integrated Soft start & MPPT
- Adjustable Speed & Timer Control
- All Stainless Steel
- High Efficiency
- Remote switching

## Benefits

- Lift up to 80m
- Flow rate up to 2.1m<sup>3</sup>/h
- Simple installation
- Maintenance-free
- High reliability & life expectancy

## Applications

- Drinking water supply
- Livestock watering
- Irrigation

## Sand & Silt Tolerance

The pump (Helical Rotor) has a higher resistance to wear from sand, clay etc. than any other pump type. Continual sand and silt pumping will damage the pump. Do not use this unit to clean out dirty bores.

## Warranty

Two years manufacturer's warranty against defects in material and workmanship, from date of installation.

### Pump End

Max flow rate	2.1m <sup>3</sup> /h
Max lift	80m
Operating temperature	-10°C - +35°C

### Solar Pump Controller

Input voltage	Nominal 24-48V DC Max open circuit-100 Voc
Timer adjustment	0-30 minutes
Speed control	Approx 30% flow reduction

### Motor

Power rating	500w
Max submersion depth	40m
Lubrication	Oil filled

Total Lift	360w (4x90w)		440w (4x110w)		500w (2x250w)	
	LPM	LPD	LPM	LPD	LPM	LPD
10	33	11880	36	12960	27	9720
20	30	10800	33	11880	25	9000
30	27	9720	30	10800	24	8640
40	23	8280	26	9360	21	7560
50	17	6120	21.5	7740	19	6840
60	11	3960	16	5760	17	6120
70	6	2160	10	3600	15	5400
80			6	2160	11	3960

LPM - Liters per minute, LPD - Liters per day. Daily flow based on 6 PSH