

# SOLAR WATER PUMP PS 200 HR/C

## Solar Operated Submersible Pump System Helical Rotor (HR) Pump Unit

### Overview

- \* Lift up to 50 m
- \* Flow rate up to 2.7 m<sup>3</sup>/h (HR) resp. 5.0 m<sup>3</sup>/h (C)
- \* Simple installation
- \* Maintenance-free
- \* High reliability and life expectancy
- \* Cost-efficient pumping
- \* 2 years manufacturer's warranty against defects in material and workmanship

### Applications

- \* Drinking water supply
- \* Livestock watering
- \* Pond management
- \* Irrigation

### Controller PS200

- \* Controlling of the pump system and monitoring of the operating states
- \* Mounted at surface (no submerged electronic parts)
- \* Two control inputs for well probe (dry running protection), float or pressure switches, remote control etc.
- \* Automatic reset 20 minutes after well probe turns pump off
- \* Protected against reverse polarity, overload and high temperature
- \* Speed control, max. pump speed adjustable to reduce flow rate to approx. 30 %
- \* Solar operation: integrated MPPT (Maximum Power Point Tracking)
- \* Battery operation: low voltage disconnect and restart after battery has recovered
- \* Max. efficiency 88 % (motor + controller)
- \* Enclosure: IP 54 (sealed, weatherproof)

### For HR pumps only

- \* Helical rotor pump (positive displacement pump)
- \* Two main parts only: stator and rotor
- \* Stator: geometry made of abrasion resistant rubber
- \* Rotor: stainless steel, hard chrome plated, abrasion resistant
- \* More resistant to damage by sand than other pump types
- \* Self-cleaning

### Motor ECDRIVE PS200 C

- \* Brushless DC motor
- \* Water filled
- \* Dynamic slide bearings, material: carbon/ceramic
- \* Wetted material: stainless steel (AISI 316), POM, rubber, cable drinking water approved

### Pump end (PE)

- \* High life expectancy
- \* None-return valve
- \* Dry running protection (optional)
- \* Material: stainless steel (AISI 316), rubber.

### Performance

PS 200	HR-04	HR-07	HR-14	C-5-4
Article #	1007-X	1009-X	1008-X	1205
Lift[m]	0-50	0-30	0-20	0-15
Max. flow rate[m/h]	0.8	1.2	2.7	5.0
Max. efficiency[%]	60	61	62	45
Solar Operation	Nominal voltage 72-96 V DC Open circuit voltage max. 200 V DC			Battery Operation only
Solar generator	80-300	80-300	80-300	
Battery Operation	Nominal voltage 24-48 V DC			



Errors expected and possible alterations without prior notice.