

HR 3-1

Solar Helical Rotor Pump System for 4" well

System Overview

Head	max.100m work head 60m
Flow rate	max.3m ³ /h

Technical Data

Controller: CTL-90

- Control and monitor system operation
- Dry running protection
- Prevent reverse rotation, overload, and overheating
- Integrated MPPT (maximum power point tracking)
- Integrated low-voltage circuit breaker protection

Power max	0.75KW
Input voltage	90V
MPPT voltage range	32-155V

Motor DBW-1HP

- Maintenance-free brushless DC
- Water injection or oil injection
- Stainless steel material: AISI 304/ 316
- No electronics in the motor

Rated power	1HP
Efficiency	92% (oil filled motor)
Motor speed	900-3600 rpm
Shell material	AISI 304/316

Pump PEHR-1.25

- Check valve
- Stainless steel material: AISI304/316
- Dry running protection
- Hollow helical rotor pump

Pump Device 4DW750-HR3-1(Motor, Pump)

Drilling diameter	Min 4.0 in
Water temperature	Max 50°C



**Vmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m² solar irradiance, 25 °C cell temperature

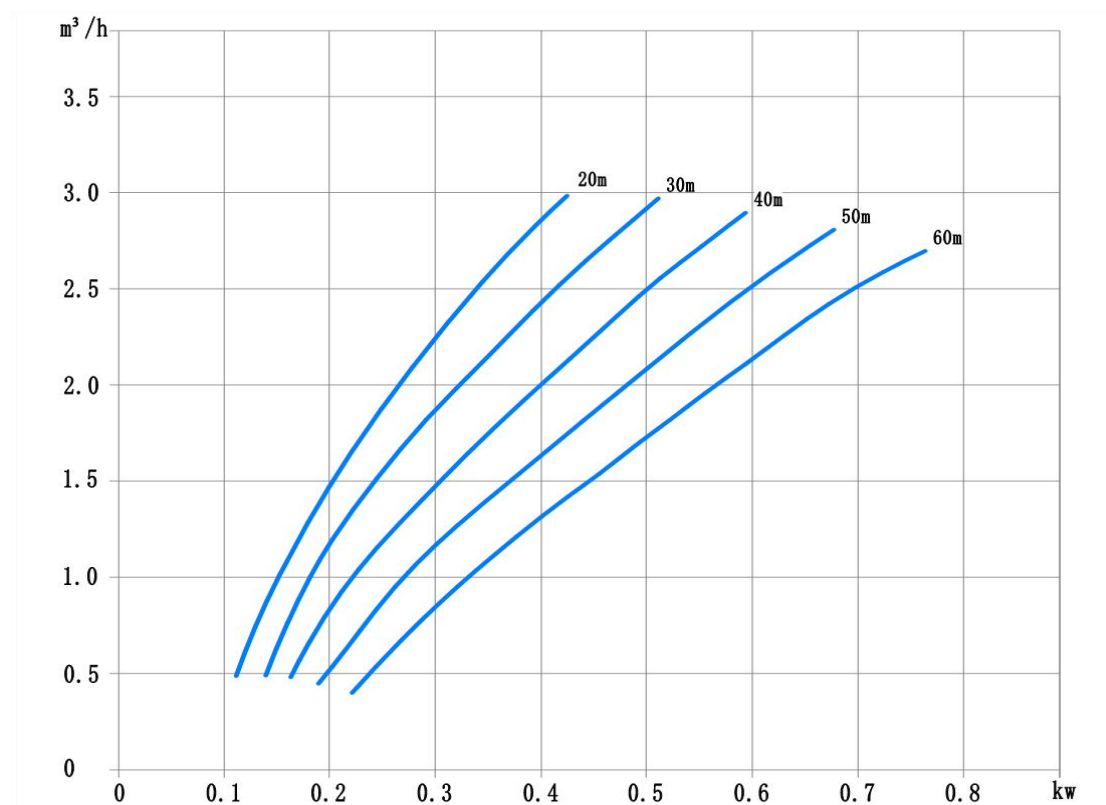
***Specify temperature range on order

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Pump Chart

Vmp*>34V



Performance Parameters

Model	Head	10	20	30	40	50	60	70	80	90	100	110	120	140
HR3-1	Flow rate (m³/h)		3.0	2.9	2.8	2.8	2.6							