



**DAWSON
SOLAR
PUMPS**

the fourth generation solar pump
PMSM BLDC sensorless
built-in electronic AC/DC hybrid solar pump



DAWSON SOLAR PUMP



The pump's innovative design allows it to be powered with both AC and DC sources without making any modifications to the pump or adding additional equipment.

Max. power output is 2200 W. The speed range for the motor is 500-3400rpm depending on the power input and the load. The motor has been developed especially for the Solar Deep Well Pump System. The motors are based on the most advanced technology within rare earth permanent magnets. The motors have a built-in electronic unit containing a frequency converter and motor controller.

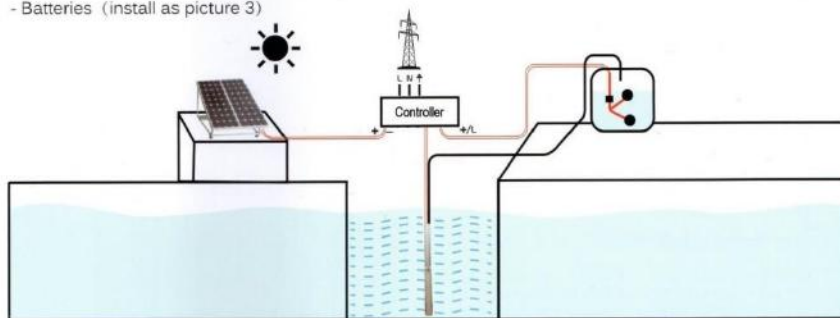
Main Function

- Brushless, permanent magnet double Shielded motor, frequency converter and motor controller inside.
- Supply Voltage Range :90-360 VDC or 90-240 VAC at 50/60 Hz, 90-440VOC
- Powered by AC/DC
- Both 50Hz and 60Hz
- Very easy installation
- MPPT Efficiency more than 95%
- Motor efficiency more than 84%
- Dry running protection
- Reverse protection
- Soft start longer system life
- Over head protection
- Overload protection
- Over-current protection
- Over-voltage Protection
- Lost-Phase protection
- Missing-voltage protection

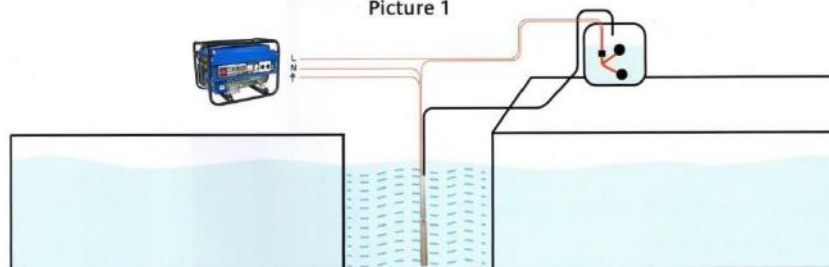
General Specifications:
 Head Rates: 10m to 180m
 Flow Rates: 5 to 400 L/Min
 Power Rates: 0.5 to 5 HP
 Secondary Controller (Optional)

The system energy supply:

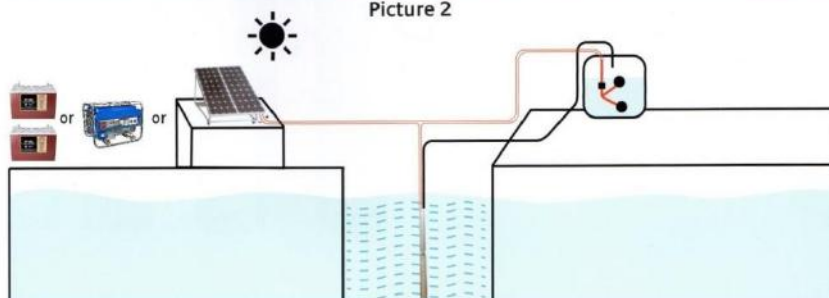
- Solar panels & Power Grid (install as picture 1)
- Generator (install as picture 2)
- Solar panels (install as picture 3)
- Generator (install as picture 3)
- Batteries (install as picture 3)



Picture 1



Picture 2



Picture 3