

NEW



GWE solar pumps

Complete system
for water supply

Off grid water supply

Overview of the benefits

- ✓ For small well diameters from 3"
- ✓ Water production without electrical network
- ✓ Stainless steel pump with wear-resistant polycarbonate hydraulics or stainless steel
- ✓ Maintenance free permanent magnet motor
- ✓ Integrated dry-run protection
- ✓ 100% power supply ensured with additional 230 V AC mains supply
- ✓ Connection for float switch
- ✓ Easy to assemble



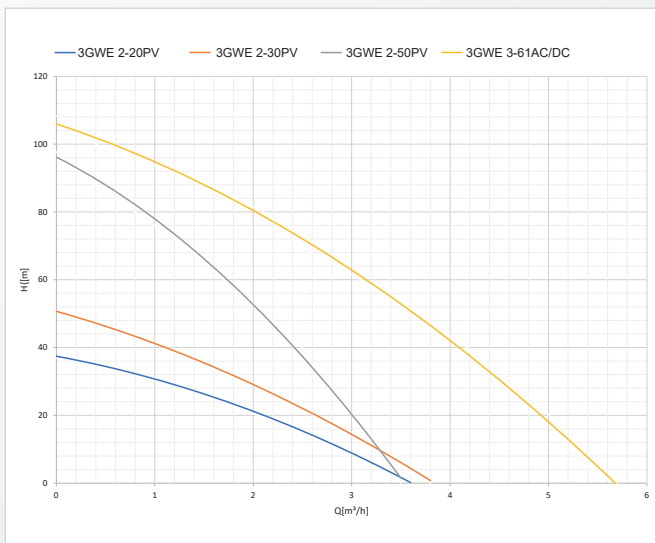
GWE solar pumps

are the ideal water supply solution for many private and professional applications. The connected photovoltaic modules provide the pump with its power supply and thus enable water production of grid. The areas of application range from private and agricultural irrigation to water supply for small communities/operations. The supplied control box ensures electronic stabilization of the voltage and always operates the pump at the optimum operating point. The optional 230 V AC connection ensures complete power supply security, even when the sun is not shining.

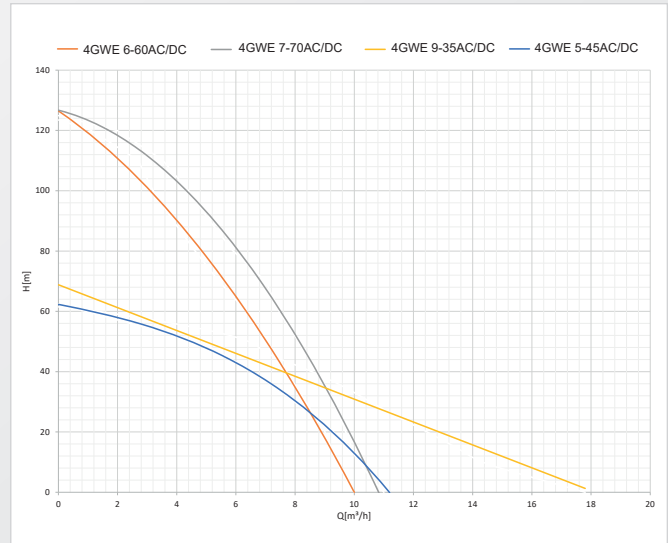
Pump

The pump body in 3'' and 4'' size is made of stainless steel AISI 304 (V2A). The impeller and individual stages of the pump hydraulics are made of wear-resistant polycarbonate plastic or stainless steel.

GWE solar pumps 3''



GWE solar pumps 4''



Model	Flow rate [m ³ /h]	Pump head [m]	Power [W]	Rp''	Input voltage [V]	max. open-circuit voltage [V]	Number of PV modules 540W
3GWE 2-20PV	2	20	300	1.25''	30-48	<60	1
3GWE 2-30PV	2	30	400	1.25''	60-90	<100	2
3GWE 2-50PV	2	50	750	1.25''	90-120	<200	3
3GWE 3-61AC/DC	3	61	1100	1.5''	110-150	<200	3
4GWE 5-45AC/DC	5	45	1500	2''	200-280	<430	6
4GWE 6-60AC/DC	6	60	2200	2''	260-380	<430	8
4GWE 7-70 AC/DC	7	70	2800	2''	260-380	<430	8
4GWE 9-35 AC/DC	9	35	2200	2''	260-380	<430	8

Other pump types available on request

Control box AC/DC

The control box is the energy and switching center of GWE solar pumps. The PV modules of the solar generator and the back-up power supply with AC connection are connected here. In case of no sunlight, the control electronics automatically switch to AC operation if required. The control box has insulation protection class IP 65 and is equipped with extensive protective devices.

- Low / high voltage protection
- Over-current protection
- Short-circuit protection

Max. power	up to 2.8 kW
DC input voltage	80-420 V DC
AC input voltage	75-280 V AC
Max. AC current	20A
Max. DC current	12A
Operating temperature	-15 to 60 °C



Complete system

- Solar pump with 2 m cable, longer cables are available on request
- Control box
- Float switch
- MC4 PV cable connector
- Teflon tape
- Screwdriver
- Pipe clamp
- Water pipe connection

Optional:

- Riser pipes DN40 (PE, PVC, stainless steel)
- Well head (PVC, stainless steel)
- Stainless steel security cable
- Connection box
- Solar modules
- Solar mast
- Monitoring





Germany: Agricultural irrigation



Burkina Faso: Water supply in rural areas



Senegal: Water supply in rural areas



Gambia: Water supply for small communities/operations

