

SOLAR MOTOR



The DAB Solar Motor is designed to make solar pumping easy. The motor uses the most widely available energy source, namely the sun. The system offers the possibility of pumping water from 4" boreholes (up to 320m pump head). The DAB Solar Motor consists of a submersible motor with a permanent magnet and integrated electronics. VFD (variable frequency drive), is integrated into the motor. The controller allows the motor to be powered by photovoltaic solar panels or an AC power supply. Switching automatically between AC or DC power makes it possible to use the pump in every part of the world, even in the most remote areas.

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THE SYSTEM CONSISTS OF:



ELECTRONIC SOLAR MOTOR

HYDRAULIC - S4 WET END

SOLAR CONTROLLER

THE MOTOR

- The brushless motor with an innovative design allows the motor to be powered by both AC and DC power sources
 - The system consists of a motor that uses rare earth permanent magnets and has a built-in electronic unit comprising a frequency converter and motor controller
 - Vector control and MPPT are used to select the best operating point for the pump
 - The motor is configured in two sizes with maximum power output (P2) of 2200 W and Max speed of 3000rpm
- M220SOL** - 0.37 to 2.2kW (55V starting, 150M Head Max)
M220SOL-H - 0.37 to 2.2kW (90V starting, 320m Head Max)



THE CONTROLLER

- Multiple power source controller to allow for Auto and Manual control of AC and DC power sources
- Multiple inputs to allow for pressure or float switches
- Integrated output contact for generator start control
- Flow sensor capable to ensure long term system life (as accessory)
- IP65 weatherproof enclosure
- Suitable for up to 2.2kW pumps
- **AC voltage input range 90 - 280 VAC; 10A**
- **DC voltage input range 55 - 400 VOC; 12A**



APPLICATIONS



WATER SUPPLY TO LIVESTOCK/GAME



SUPPLY TO "OFF THE GRID" LODGES, HOMES & DEVELOPMENTS



WATER SUPPLY



IRRIGATION SYSTEMS



PUMPING FROM DAMS OR RIVERS

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www.dabpumps.co.za

Twenty One Industrial Estate, 16 Purlin Street, Warehouse 4, Unit B, Olifantsfontein, South-Africa

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