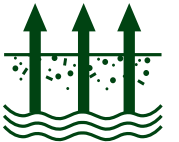




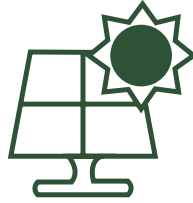
S4SUN

MAKE WATER AVAILABLE
EVERYWHERE



DAB
WATER • TECHNOLOGY

MAKE WATER AVAILABLE EVERYWHERE



S4SUN is the DAB system for pumping water using the most widely available renewable energy, the sun.

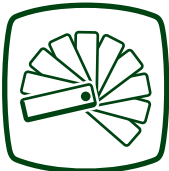
The system offers the possibility of lifting water from 4" wells (up to a depth of 250 meters), using the energy produced by the sun and allowing to feed small water networks and use water tanks at different times of the day.

Dab S4SUN consists of a **submersible pump with a permanent magnet motor and integrated electronics, a VFD (Variable Frequency Drive, integrated in the motor) and a controller that allows the pump to be powered by photovoltaic panels (solar collectors) or an AC power supply, switching on one or the other automatically.**

Thanks to these characteristics **it is possible to use the pump in every part of the world**, even in the most remote areas, or area not reached by the power grid or where it is not stable.



WATER EVERYWHERE
even where there isn't electricity



WIDE RANGE OF HYDRAULICS
to cover all requests

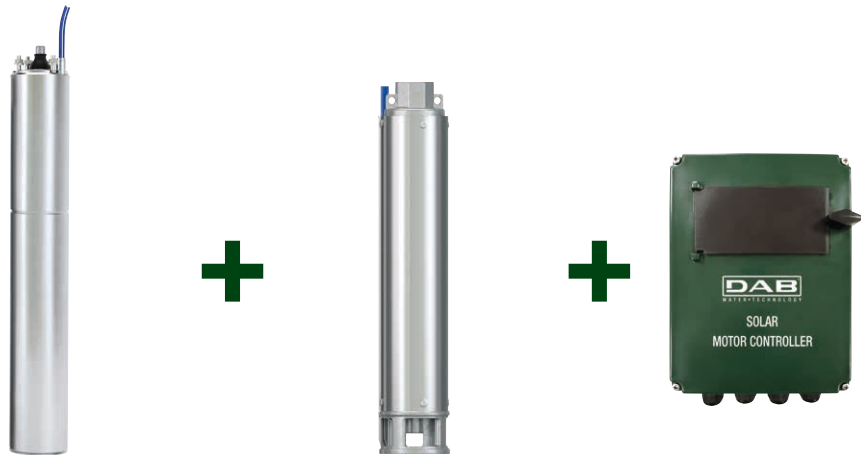


INTELLIGENT MOTOR
thanks to the integrated inverter



HIGH EFFICIENCY
thanks to the brushless motor

THE COMPLETE SYSTEM CONSIST OF :



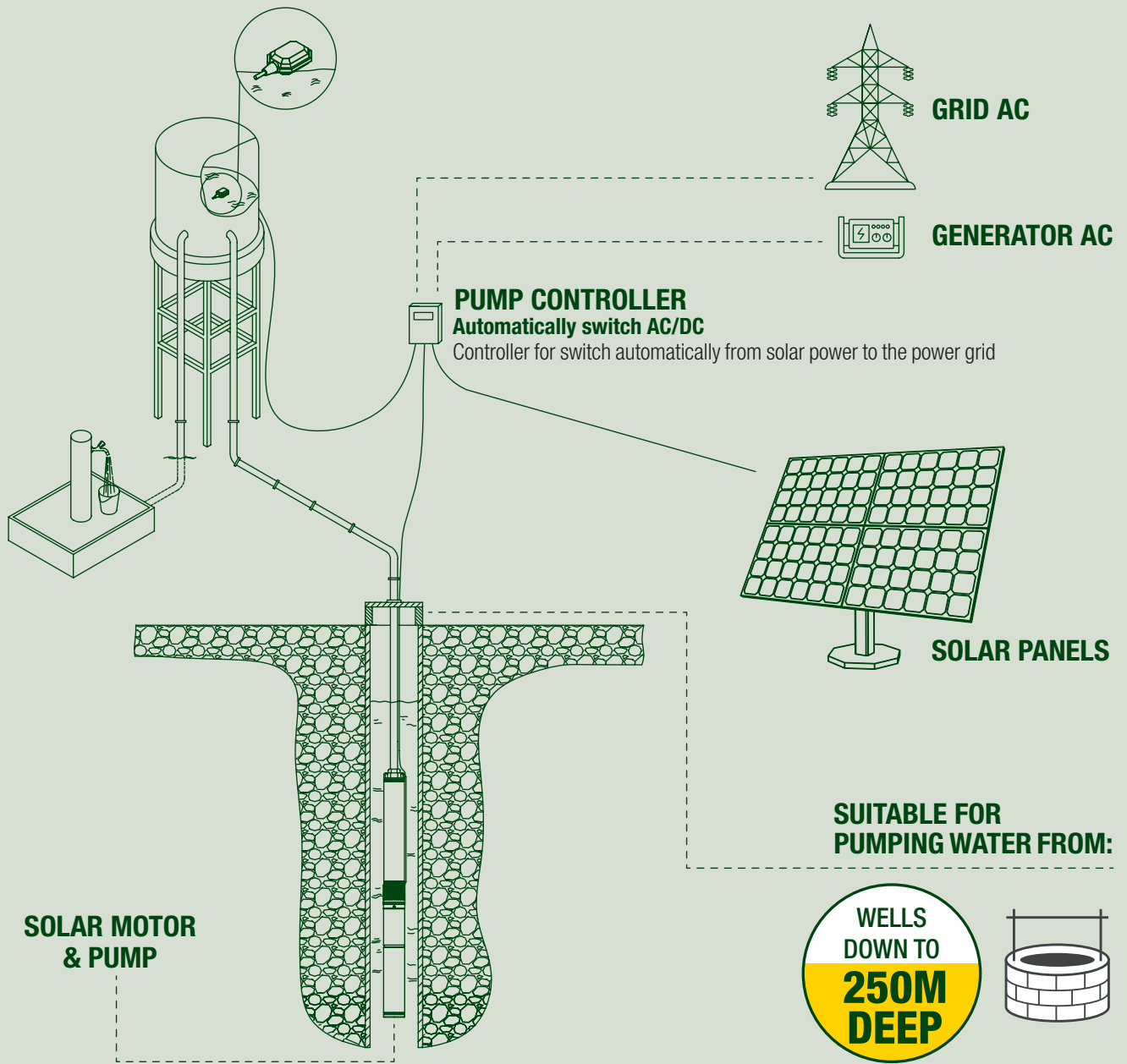
ELECTRONIC SOLAR MOTOR | HYDRAULIC - S4 WET END | SOLAR CONTROLLER *

Two versions of the motor are available, both with a max power of 2,2 kW. With the installation of the flow sensor the system guarantees greater flexibility and reliability, allowing to set the restart time for wells with low flow and a better protection against the dry running.

*The system can work also without the controller, but it doesn't allow the automatic switching and the power reading.



OVERVIEW



APPLICATIONS

- Farms
- Livestock watering
- Tank/Cistern filling
- Wildlife refuge
- Rural water supply for villages and homesteads, school, small remote hospital



- Irrigation systems (fields and greenhouse)
- Fountains, ponds, lakes
- Vineyards
- Renewable energy projects
- Rain harvesting

TECHNICAL DATA

HEAD UP TO	250 m
TYPE OF PUMPED LIQUID	Clean water
PUMP MAXIMUM DIAMETER	99 mm
STANDARD FLANGES	NEMA 4"
POWER SUPPLY CABLE LENGTH	3 meters
MAXIMUM AMOUNT OF SAND	150 g/m3
IMPELLER/S MATERIAL	Technopolymer
LIQUID TEMPERATURE RANGE	From 0°C to +40°C
MAXIMUM IMMERSION DEPTH	250 m
MOTOR PROTECTION CLASS	IP X8
MOTOR INSULATION CLASS	class B
AC POWER INPUT	90 V -280 V AC
DC POWER INPUT	55 or 90 - 440 Voc
POSSIBLE TYPE OF INSTALLATION	Fixed in vertical position. Horizontal installation is possible, it is recommended to install a cooling sleeve.
SPECIAL VERSIONS ON REQUEST	AISI 316 stainless steel

THE MOTOR - M220SOL

The Brushless motor with a innovative design allows the motor to be powered by both AC and DC power sources. The motor is one size for all models with a maximum power output (P2) of 2200 W, they differ in the starting voltage. The speed range of the motor is 1800 rpm to 3000 rpm depending on the power input and load. The motor uses rare earth permanent magnets, and has a built-in electronic unit including a frequency converter and motor controller. Vector control and MPPT are used to select the best duty point for the pump. The motor can be supplied with either AC or DC voltage.



MOTOR TYPE	AC VOLT.	DC VOLT.	M/T	P2 kW	P2 HP	L Motor	Weight	In AC	In DC	Cs/ Cn	P1MAX AC [W]	P1MAX DC [W]	rpm	Ø	LC
MOTOR M220SOL	80-280	55-440	M	2,2	3	655	18	10	12	NA	2200	3000	3000	4x1,5	3
MOTOR M220SOL-H	80-280	90-440	M	2,2	3	695	18	10	12	NA	2200	3000	3000	4x1,5	3
MOTOR M220SOL-N	80-280	55-440	M	2,2	3	655	18	10	12	NA	2200	3000	3000	4x1,5	3
MOTOR M220SOL-H-N	80-280	90-440	M	2,2	3	695	18	10	12	NA	2200	3000	3000	4x1,5	3

TECHNICAL DATA

SOLAR MOTOR CONTROLLER

- Multiple power source controller to allow for Auto and Manual control of AC and DC power sources
- Multiple input type to allow for wider use as complete pressure or float based system
- Integrate output contact for generator start control
- Flow meter capable to ensure long term system life
- The Solar controller is a microcontroller designed, developed and manufactured for the DAB Solar pumps
- Manually or automatically switchable between two power supplies depending on DC/Solar power availability
- IP65 weatherproof enclosure
- Suitable for up to 2.2kw pumps
- AC voltage input range 80 - 280 VAC
- DC voltage input range 50 - 440 VOC



PUMP TESTED FOR SOLAR APPLICATION

PUMP MODEL

S41	S42	S43	S44	S46	S48	S412	S416
Q= 5 - 30 [l/m]	Q= 10 - 65 [l/m]	Q= 15 - 95 [l/m]	Q= 20 - 115 [l/m]	Q= 25 - 175 [l/m]	Q= 40 - 235 [l/m]	Q= 60 - 285 [l/m]	Q=100 - 415 [l/m]
H= 10 - 260 [m]	H= 5 - 280 [m]	H= 5 - 220 [m]	H= 5 - 180 [m]	H= 5 - 110 [m]	H= 5 - 80 [m]	H=5 - 70 [m]	H=5 - 35 [m]
S4 - 1/13	S4 - 2/5	S4 - 3/6	S4 - 4/4	S4 - 6/5	S4 - 8/4	S4 - 12/5	S4 - 16/5
S4 - 1/19	S4 - 2/7	S4 - 3/9	S4 - 4/7	S4 - 6/7	S4 - 8/6	S4 - 12/8	S4 - 16/8
S4 - 1/26	S4 - 2/10	S4 - 3/13	S4 - 4/9	S4 - 6/10	S4 - 8/8	S4 - 12/11	
S4 - 1/37	S4 - 2/14	S4 - 3/19	S4 - 4/14	S4 - 6/14	S4 - 8/13		
	S4 - 2/20	S4 - 3/25	S4 - 4/19	S4 - 6/21			
	S4 - 2/28	S4 - 3/32	S4 - 4/27				
	S4 - 2/40	S4 - 3/39					

NEW

S4SUN

MAKE WATER AVAILABLE **EVERYWHERE**





DAB[®]
WATER • TECHNOLOGY

**DAB PUMPS LTD.**

6 Gilberd Court
Newcomen Way
Severalls Business Park
Colchester
Essex
CO4 9WN - UK
salesuk@dwtgroup.com
Tel. +44 0333 777 5010

**DAB PUMPS IBERICA S.L.**

Calle Verano 18-20-22
28850 - Torrejón de Ardoz - Madrid
Spain
Info.spain@dwtgroup.com
Tel. +34 91 6569545
Fax: + 34 91 6569676

**DAB PUMPS SOUTH AFRICA**

Twenty One industrial Estate,
16 Purlin Street, Unit B, Warehouse 4
Olifantsfontein - 1666 - South Africa
info.sa@dwtgroup.com
Tel. +27 12 361 3997

**DAB PUMPS BV**

'tHofveld 6 C1
1702 Groot Bijgaarden - Belgium
info.belgium@dwtgroup.com
Tel. +32 2 4668353

**DAB PUMPS HUNGARY KFT.**

H-8800
Nagykanizsa, Buda Ernő u.5
Hungary
Tel. +36 93501700

**DAB PUMPS (QINGDAO) CO. LTD.**

No.40 Kaituo Road, Qingdao Economic & Technological
Development Zone
Qingdao City, Shandong Province - China
PC: 266500
sales.cn@dwtgroup.com
Tel. +86 400 186 8280
Fax +86 53286812210

**DAB PUMPS POLAND Sp. z o.o.**

Ul. Janka Muzykanta 60
02-188 Warszawa - Poland
polska@dabpumps.com.pl

**DAB PUMPS DE MÉXICO, S.A. DE C.V.**

Av Amsterdam 101 Local 4
Col. Hipódromo Condesa,
Del. Cuauhtémoc CP 06170
Ciudad de México
Tel. +52 55 6719 0493

**DAB PUMPS B.V.**

Albert Einsteinweg, 4
5151 DL Drunen - Nederland
info.netherlands@dwtgroup.com
Tel. +31 416 387280
Fax +31 416 387299

**OOO DAB PUMPS**

Novgorodskaya str. 1, block G
office 308, 127247, Moscow - Russia
info.russia@dwtgroup.com
Tel. +7 495 122 0035
Fax +7 495 122 0036

**DAB PUMPEN DEUTSCHLAND GmbH**

Tackweg 11
D - 47918 Tönisvorst - Germany
info.germany@dwtgroup.com
Tel. +49 2151 82136-0
Fax +49 2151 82136-36

**DAB PUMPS INC.**

3226 Benchmark Drive
Ladson, SC 29456 - USA
info.usa@dwtgroup.com
Tel. 1- 843-797-5002
Fax 1-843-797-3366

**DAB PUMPS OCEANIA PTY LTD**

426 South Gippsland Hwy,
Dandenong South VIC 3175 - Australia
info.oceania@dwtgroup.com
Tel. +61 1300 373 677