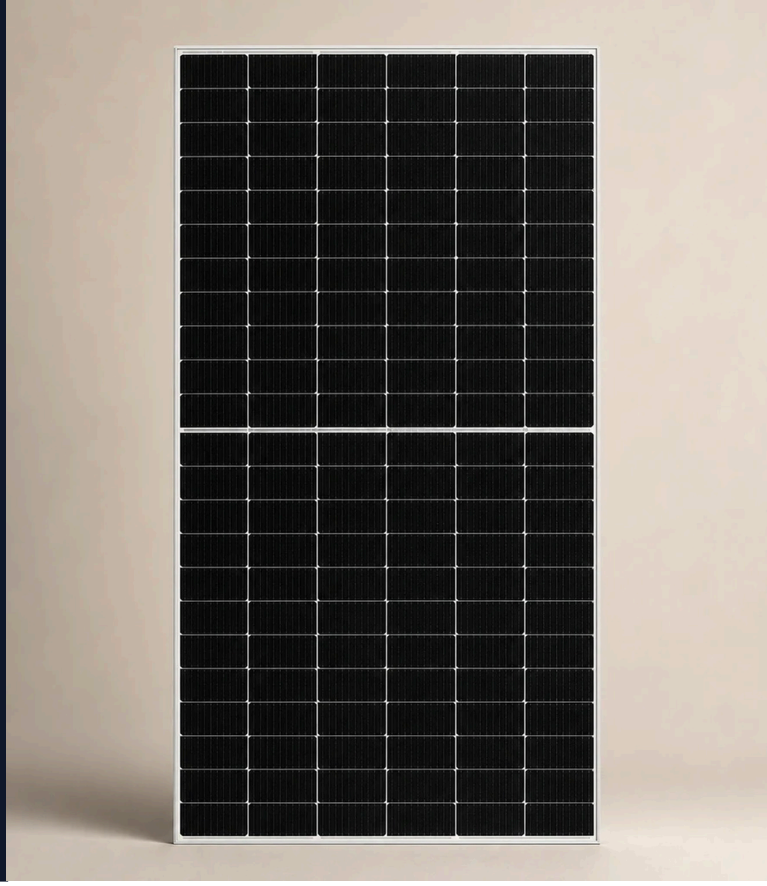
Equipment and solutions

EOS BS4 (4") Solar Submersible Pump

Product technical datasheet

High-efficiency 4-inch solar submersible pumps.

FT-P087 · Rev. 1



The EOS BS4 pumps are designed for 4-inch boreholes, covering a wide range of flow rates and head values. With power ratings up to 1000W, they are suitable for agricultural irrigation and solar-powered water supply. Built with corrosion-resistant materials for long service life.

Applications

- Water supply in remote or isolated areas
- Agricultural irrigation systems with solar energy
- Water extraction from boreholes, wells, rivers, or reservoirs
- Pumping systems where energy cost reduction is desired

Operating conditions

- Confirm the installation conditions, power supply and duty point before commissioning.

Engineering note	Confirm the installation conditions, power supply and duty point before commissioning.
Complementary equipment	Contact JOVAL for compatible accessories and equipment.
Resources and support	Pump selection guide · JOVAL technical support
Contact	+351 253 490 740 · joval@joval.pt

Technical specifications

Solar Controller

EOS 36-48/500 (Mod. 500W)

Protection degree

IP54

MPPT Efficiency

99%

Ambient Temp.

-25°C to 65°C

Cooling

Diffuser plate

Applications

- Water supply in remote or isolated areas
- Agricultural irrigation systems with solar energy
- Water extraction from boreholes, wells, rivers, or reservoirs
- Pumping systems where energy cost reduction is desired

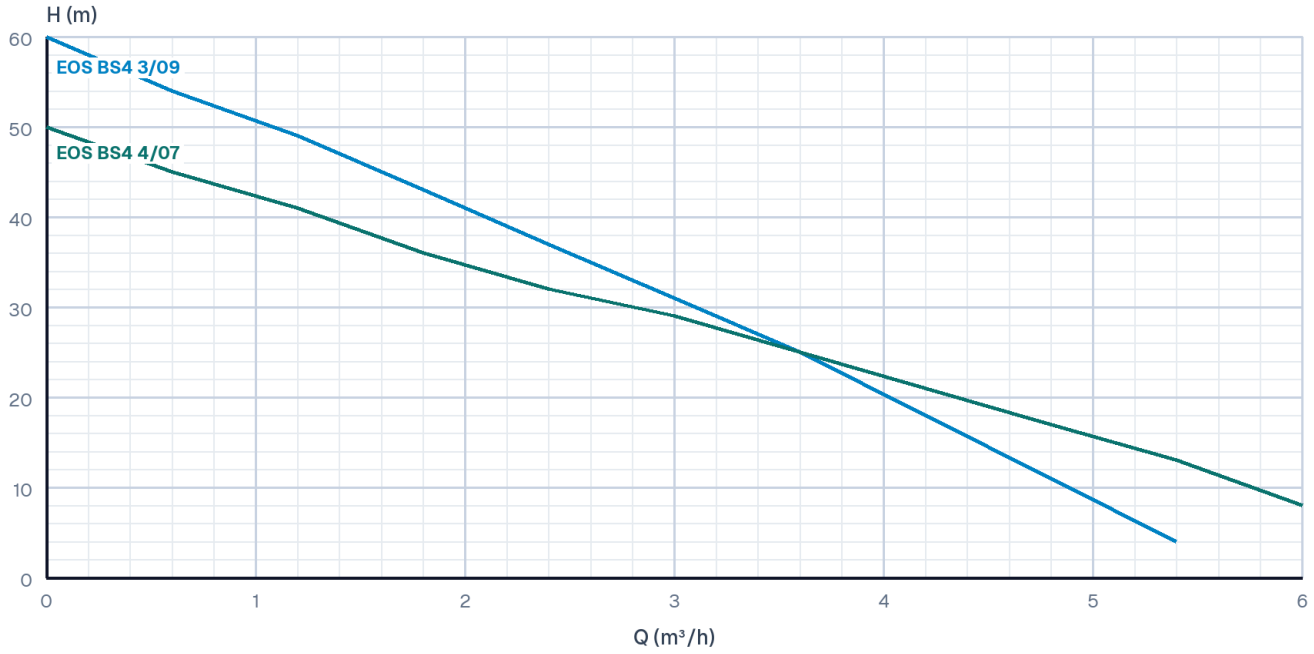
Operating conditions

- Confirm the installation conditions, power supply and duty point before commissioning.

Engineering note Confirm the installation conditions, power supply and duty point before commissioning.

Performance Curve · 48 V · 500 W

Performance curves



Electrical data

Model	V / W	Solar Controller
EOS BS4 3/09	48 / 500	EOS 36-48/500
EOS BS4 4/07	48 / 500	EOS 36-48/500

Performance Curve · 48 V · 500 W

Hydraulic performance

Total head H in metres

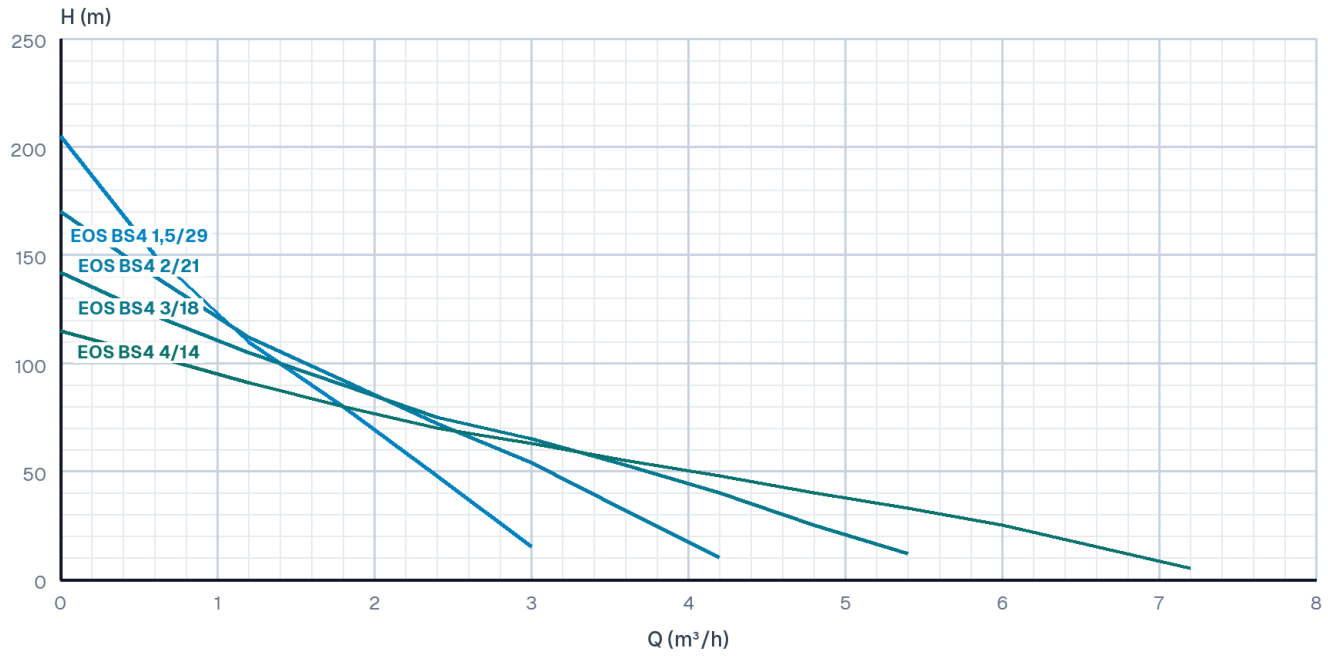
Q · Flow (m³/h)

Model	0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8	5,4	6
EOS BS4 3/09	60	54	49	43	37	31	25	18	11	4	—
EOS BS4 4/07	50	45	41	36	32	29	25	21	17	13	8

Select the duty point at the intersection of Q and H.

Performance Curve · 96 V · 1000 W · 1.5–4

Performance curves



Electrical data

Model	V / W	Solar Controller
EOS BS4 1,5/29	96 / 1000	EOS 96/1000
EOS BS4 2/21	96 / 1000	EOS 96/1000
EOS BS4 3/18	96 / 1000	EOS 96/1000
EOS BS4 4/14	96 / 1000	EOS 96/1000

Performance Curve · 96 V · 1000 W · 1.5–4

Hydraulic performance

Total head H in metres

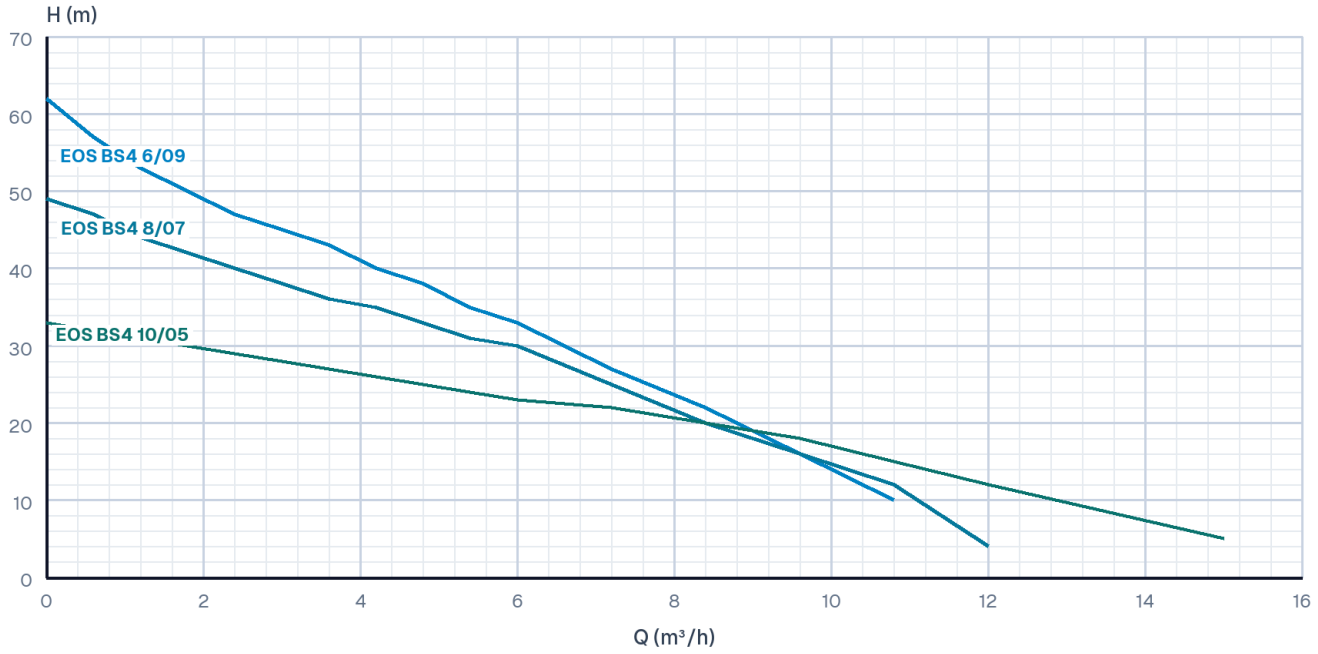
Q · Flow (m³/h)

Model	0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8	5,4	6	7,2
EOS BS4 1,5/29	205	150	110	80	48	15	—	—	—	—	—	—
EOS BS4 2/21	170	140	112	92	72	54	32	10	—	—	—	—
EOS BS4 3/18	142	122	105	90	75	65	53	40	25	12	—	—
EOS BS4 4/14	115	103	91	80	70	63	55	48	40	33	25	5

Select the duty point at the intersection of Q and H.

Performance Curve · 96 V · 1000 W · 6–10

Performance curves



Electrical data

Model	V / W	Solar Controller
EOS BS4 6/09	96 / 1000	EOS 96/1000
EOS BS4 8/07	96 / 1000	EOS 96/1000
EOS BS4 10/05	96 / 1000	EOS 96/1000

Performance Curve · 96 V · 1000 W · 6–10

Hydraulic performance

Total head H in metres

Q · Flow (m³/h)

Model	0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8	5,4	6	7,2	8,4	9,6	10,8	12	15
EOS BS4 6/09	62	57	53	50	47	45	43	40	38	35	33	27	22	16	10	—	—
EOS BS4 8/07	49	47	44	42	40	38	36	35	33	31	30	25	20	16	12	4	—
EOS BS4 10/05	33	32	31	30	29	28	27	26	25	24	23	22	20	18	15	12	5

Select the duty point at the intersection of Q and H.