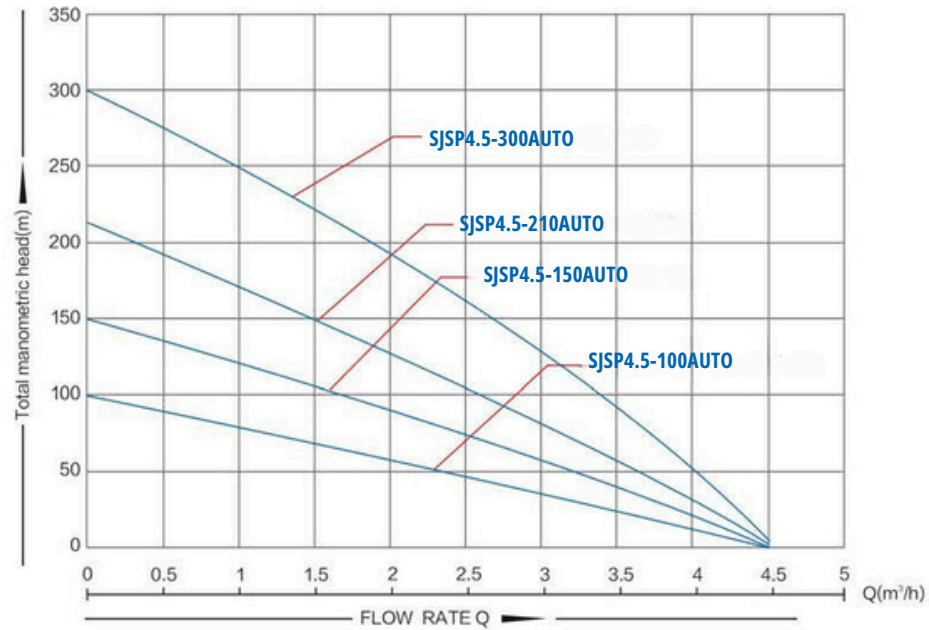


## SJSP4.5 AC/DC Solar Pump

### Performance Curves



A multistage centrifugal submersible pump designed for borehole and well water supply, featuring hybrid capability to operate on both DC solar and AC power. It includes durable stainless steel or plastic impellers, depending on the model. Some pumps offer manual changeover between AC and DC, while others automatically switch based on power availability. Key features include MPPT technology for optimized DC efficiency, wide voltage flexibility, soft start for motor longevity, and protections against dry running, overload, and voltage fluctuations. With robust construction and intelligent controls, these pumps are ideal for hybrid water supply solutions, balancing efficiency and reliability.

### Typical Applications

- Agricultural irrigation: Solar pumps provide consistent water supply for crop irrigation, reducing reliance on traditional electricity or fuel.
- Livestock watering: Ideal for remote pastures, they supply water for livestock, ensuring healthy and sustainable animal farming.
- Community water supply: Solar pumps support rural areas by providing clean water for drinking, cooking, and sanitation needs.
- Aquaculture: They circulate and oxygenate water in fish ponds or shrimp farms, enhancing aquatic health and productivity.
- Garden or park irrigation: Useful for maintaining greenery in urban parks, gardens, or landscapes where electricity access is limited.

### Technical Data

Model	Max. Flow (m³/h)	Max. Head (m)	Voltage (V)		Power (W)	Outlet (inch)	Cable (m)	Solar Panel Open Circuit Voltage (Voc)	Solar Panel Power	Configuration	Calculated (A)
SJSP4.5-100AUTO (AC/DC Pump)	4.5	100	DC80-430V	AC80-240V	750	1.25	2	<430V	>=1.3* PUMP POWER	5X450W(HV) X1ARRAY	5X450W(HV) X1ARRAY
SJSP4.5-150AUTO (AC/DC Pump)	4.5	150	DC80-430V	AC80-240V	1100	1.25	2	<430V	>=1.3* PUMP POWER	5X450W(HV) X1ARRAY	5X450W(HV) X1ARRAY
SJSP4.5-210AUTO (AC/DC Pump)	4.5	210	DC80-430V	AC80-240V	1500	1.25	2	<430V	>=1.3* PUMP POWER	5X450W(HV) X1ARRAY	5X450W(HV) X1ARRAY
SJSP4.5-300AUTO (AC/DC Pump)	4.5	300	DC80-430V	AC80-240V	2200	1.25	2	<430V	>=1.3* PUMP POWER	5X450W(HV) X1ARRAY	5X450W(HV) X1ARRAY