

AC/DC SOLAR SWIMMING POOL PUMP

MATERIAL & FEATURES

- ▶ **Motor:** Permanent-magnet synchronous (PMSM) — up to 92% efficiency, 20–30% more energy-saving
- ▶ **Drive / MPPT:** Sensorless FOC sine-wave drive · MPPT >99% · LED display (V/A/W/RPM/error)
- ▶ **Wetted parts:** plastic impeller · aluminium body · plastic outlet
- ▶ **Power:** Solar DC or 220 V AC (90–240 V, 50/60 Hz) / generator — external transfer switch
- ▶ **Material grades:** SUS304 standard · SUS316 optional for coastal / brackish water
- ▶ **Key components:** 100% copper motor windings · NSK-grade sealed ball bearings · Corrosion-proof engineering-plastic wet end · Ceramic-carbon mechanical seal
- ▶ **Ingress:** Motor IP55 · Controller IP66 · Class F insulation · water-cooled (plastic)
- ▶ **Protection:** Dry-run · over/under-voltage · overload · over-current · reverse · over-temp · soft-start
- ▶ **Cable:** PV-to-controller & motor cable 2.5 mm² by model (copper, sized for a ~50 m run; step up one size per additional ~50 m of drop).
- ▶ **Warranty:** 2 years
- ▶ **Standards:** CE · RoHS · CB · TUV · SGS · ISO 9001 · ISO 14001 · IEC 62253


18 m

MAX HEAD

36 m³/h

MAX FLOW

600–2200 W

POWER

92%

EFFICIENCY

2 yr

WARRANTY

APPLICATIONS



Circulation

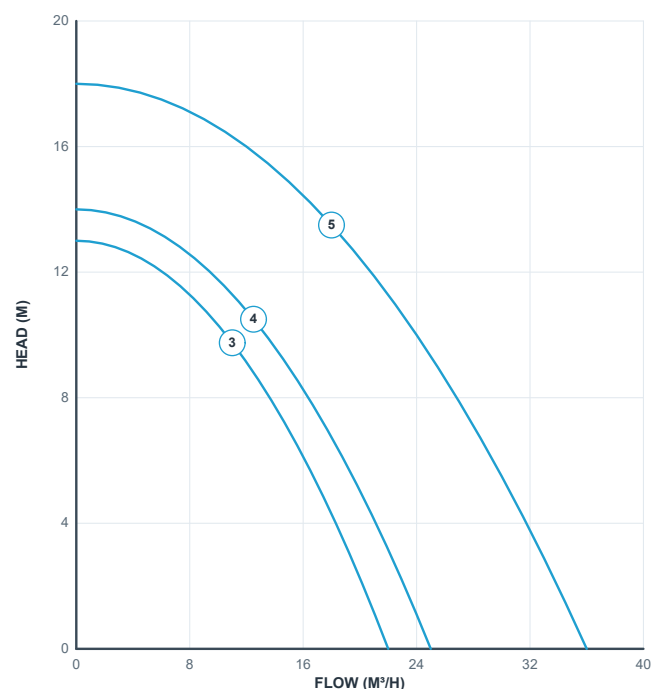
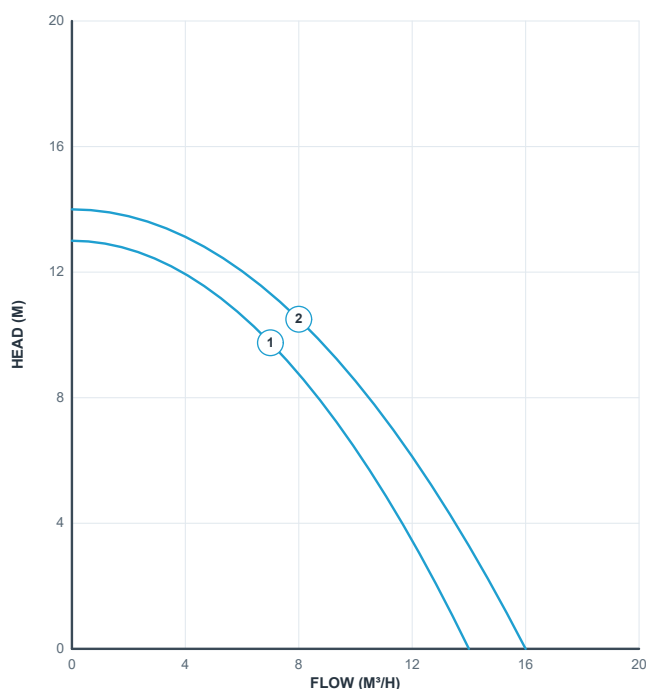


Filtration



Solar-powered

PERFORMANCE CURVES (Q–H)

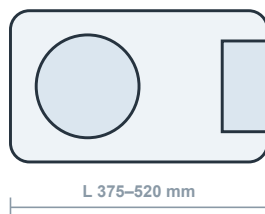


AC/DC SOLAR SWIMMING POOL PUMP - SPECIFICATIONS

Model no.: size (") · type · max flow (m³/h) – max head (m) – system voltage (V) – power (W)

NO.	MODEL	VOLT. (V)	INPUT Voc (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	OUTLET (inch)	REC. PV
1	PSP14-13-72-600-H	72	60~150	600	14	13	2"	3 × 300 Wp
2	PSP16-14-96-750-H	96	60~200	750	16	14	2"	3 × 300 Wp
3	PSP22-13-144-1100-H	144	90~340	1100	22	13	2"	6 × 300 Wp
4	PSP25-14-192-1500-H	192	90~430	1500	25	14	2"	8 × 300 Wp
5	PSP36-18-280-2200-H	280	100~490	2200	36	18	2"	10 × 300 Wp

DIMENSIONS & WEIGHT



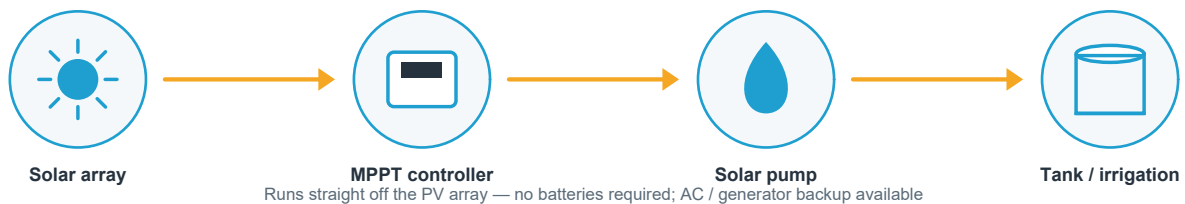
KEY DIMENSIONS

Overall length	375–520 mm
Net weight	7.4–13.8 kg
Controller size	360 × 260 × 140 mm
Controller weight	7 kg

OPERATING CONDITIONS

Liquid temp	0–40 °C
Max. sand	≤ 0.05 % (≤ 500 g/m³)
pH value	5–9
Ambient	-15 to 70 °C
Max. immersion	N/A
Duty	S1 (continuous)

SYSTEM LAYOUT



WHY AQUASOLAR



FOC + MPPT >99%
 Pure sine-wave drive — max water per day



IP68 · SUS304
 Submersible, corrosion-resistant build

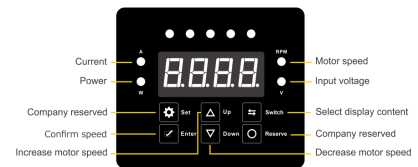


Dry-run protected
 8 protections + soft start



2-year warranty
 Trusted in 70+ countries

CONTROLLER



LED control panel — real-time monitoring & manual speed

CONTROLLER SPEC

Drive	Sensorless FOC, pure sine-wave output
MPPT efficiency	>99%
Enclosure	IP66
Mount	Both
Display	V / A / W / RPM / error
Remote monitor	Optional 4G / Wi-Fi module (add-on)

MATERIALS & CERTIFICATION

Standard Reinforced engineering-plastic body & impeller + SUS304 shaft

CE	RoHS	CB	TUV	SGS	ISO 9001	ISO 14001
IP68	IEC 62253					