

3" DC PLASTIC IMPELLER SOLAR 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:** stainless steel / engineered polymer impeller · 201 stainless steel body · brass/stainless steel outlet
- ▶ **Material grades:** SUS304 standard · SUS316 optional for coastal / brackish water
- ▶ **Key components:** 100% copper motor windings · NSK-grade sealed ball bearings · SUS304 shaft + engineering-plastic impellers · Silicon-carbide (SiC) mechanical seal
- ▶ **Ingress:** Motor IP68 (submersible motor) · Controller IP66 · Class F insulation · oil cooling
- ▶ **Protection:** Dry-run · over/under-voltage · overload · over-current · reverse · over-temp · soft-start
- ▶ **Cable:** PV-to-controller & motor cable 2.5–4 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


230 m

MAX HEAD

6.5 m³/h

MAX FLOW

300–2200 W

POWER

92%

EFFICIENCY

2 yr

WARRANTY

APPLICATIONS



Irrigation



Livestock



Village supply

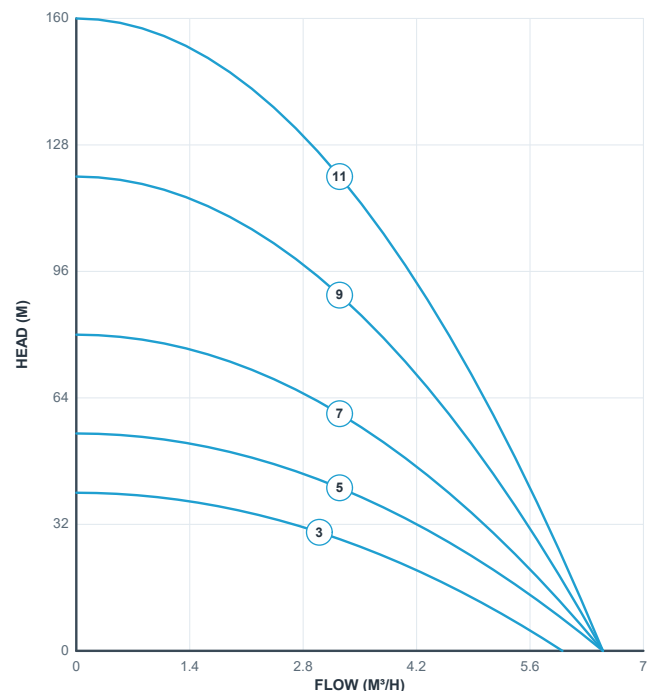
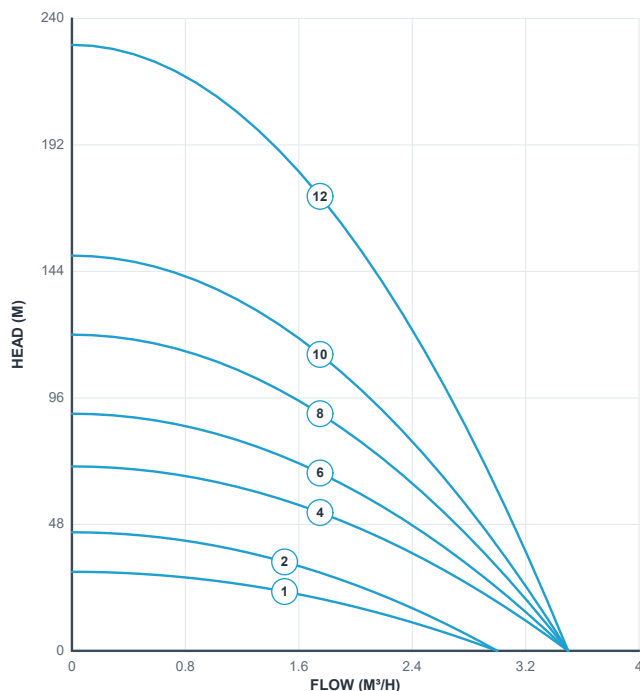


Off-grid



Industry

PERFORMANCE CURVES (Q–H)



3" DC PLASTIC IMPELLER SOLAR 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	3PSC3.0-30-24-300	24	11~55	300	3	30	1"	1 × 400 Wp
2	3PSC3.0-45-48-400	48	45~150	400	3	45	1"	2 × 300 Wp
3	3PSC6.0-40-72-600	72	60~150	600	6	40	1"	3 × 300 Wp
4	3PSC3.5-70-72-600	72	60~150	600	3.5	70	1"	3 × 300 Wp
5	3PSC6.5-55-96-750	96	60~200	750	6.5	55	1"	3 × 300 Wp
6	3PSC3.5-90-96-750	96	60~200	750	3.5	90	1"	3 × 300 Wp
7	3PSC6.5-80-144-1100	144	90~340	1100	6.5	80	1"	6 × 300 Wp
8	3PSC3.5-120-144-1100	144	90~340	1100	3.5	120	1"	6 × 300 Wp
9	3PSC6.5-120-192-1500	192	90~430	1500	6.5	120	1"	8 × 300 Wp
10	3PSC3.5-150-192-1500	192	90~430	1500	3.5	150	1"	8 × 300 Wp
11	3PSC6.5-160-280-2200	280	100~490	2200	6.5	160	1"	10 × 300 Wp
12	3PSC3.5-230-280-2200	280	100~490	2200	3.5	230	1"	10 × 300 Wp

DIMENSIONS & WEIGHT



KEY DIMENSIONS

Pump outer Ø	74 mm
Min. borehole	76 mm
Overall length	745–1355 mm
Net weight	6.3–14.2 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	150 m
Duty	S1 (continuous)

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	SUS304 sleeve + engineering-plastic impeller & diffuser + SUS304 shaft
Option	SUS316 sleeve + plastic impeller (plastic is inherently corrosion-proof)

