

## Micro distribution

**Small, simple, robust and inexpensive solar powered pumps for the micro water distribution in agriculture, homes, animal water supply or irrigation are important components in decentralized and renewable powered water infrastructure.**

This solar submersible pump has many useful applications with solar energy in industry and household. It is an ideal combination of water and sun – environmentally friendly. It saves primary energy and physical efforts like pumping with manpower in order to obtain or distribute water. It works according to the principle: The more sunlight, the more water is pumped. Runs even in hazy weather. It is a very effective application for family gardens or small rural areas with the solar drip system.

A 12 W Solar panel for a depth up to 10 meters (appr. 30 ft) Type LJ108 is needed  
 A 24 W solar panel for a transport level up to 20 meters (appr. 60 ft), Type LJ208 is needed  
 A 36 W solar panel for a transport level up to 30 meters (appr. 90 ft), Type LJ308 is needed

The pumps have a low maintenance requirement and perform automatic operation for years. The special construction allows drying operation for hours. They are robust and reliable which results into low costs for the whole system. With a low borehole cost - a diameter of 6,0 cm is sufficient. The pumps are also very suitable for usage in a 2" borehole.

### Technical data LJ 108S / LJ208D / LJ 308-T

- No direct battery operation possible!!!
- Max. Voltage: 17,50 / 35,00 / 35,00
- Min. Voltage: 16,20 / 32,00 / 32,00
- Safe for dry run, overload and reverse poling
- Diameter of pump: 4,9 cm
- Length of pump: 52 cm
- Length of cable and water pipe: 10m / 20m / 30m
- Accessories of pumps: lifting rope, water pipe, foam filter, silicone tube, O-ring, main spring, hexagonal key (8mm and 3mm), resin-free oil

### Specification of solar pumps: Water depth / Water quantity (l) at 6 hours sunshine



Sunshine intensity

Full sunshine

A few clouds

Many clouds

Type LJ108 S	3m	678	479	365
	5m	521	385	285
	7m	411	304	227
	10m	270	180	129
Type LJ 208 D	7m	438	335	244
	10m	374	283	208
	15m	306	225	164
	20m	249	187	129
Type LJ 308 T	15m	422	327	242
	20m	345	266	201
	25m	282	210	155
	30m	221	167	112

