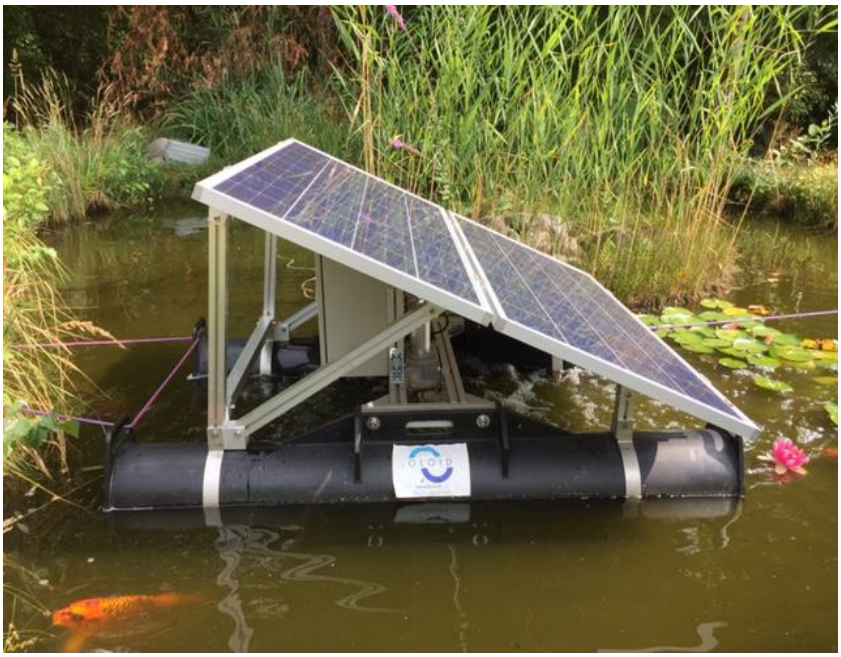
inversions-technik GmbH

Solar-OLOID
Brief Deskription



Type Oloid 200 B Solar
Type Oloid 400 B Solar

Performance
Adjustable inclination 0-45° for all applications world wide (all latitudes)

Up to 12h run-time with self-contained power supply

Overvoltage and discharge protection

Success
Self-contained power supply

Energy and cost-effective

The illustrated Solar-Oloid (Type 200) runs successfully since the summer of 2015 in a small test pond in Berlin. This solution was created in cooperation of the companies alfred rexroth GmbH & Co. KG and the Inversions-Technik GmbH. Even in Berlin (52.5° north latitude and southeasterly orientation of the panels) the OLOID runs reliably 10 to 12 hours every day.

The Solar-OLOID convinces mainly by its independent power supply through which it can be operated in ponds without incoming power supply. The Solar-OLOID is energy efficient, especially with regard to fossil fuels, and less expensive, because the costly installation of a power supply line is not needed.

The system is built to last, the backup batteries are lithium-based with a long service life. The solar controller guarantees that the batteries are not getting discharged completely. The control system is simple and robust in the field of PV systems .

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OLOID inversions-technik GmbH

Solar-OLOID

Technical Data

OLOID Type 200 B	OLOID Type 400 B
Mechanical and electrical data	
OLOID-body: 194 mm, stainless steal	OLOID-body: 365 mm, stainless steal
Housing: Aluminum anodized	Housing: Aluminum anodized
Driving unit: stainless steal 1.4435	Driving unit: stainless steal 1.4435
DC motor IP65, 24 V	DC motor IP65, 24 V
Nominal output: 117 W	Nominal output: 140 W
Net power consumption at 125 rpm: 50 W (agitation position) Weight: 11 kg	Net power consumption at 55 rpm: 120 W (agitation position) Weight: 37 kg
Circulation- and aeration capacity	
Measured at 125 rpm	Measured at 55 rpm
Flow: 30 m horizontally, up to 3 m vertically	Flow: 100 m horizontally, 3 – 6 m vertically
Flow rate: 150 m^3/hour	Flow rate: 700 m^3/h
Oxygen introduction: up to 50 g O_2/h	Oxygen introduction: up to 250 g O_2/h
Oxygen transfer efficiency: up to 1,65 kg O_2/kWh	Oxygen transfer efficiency: up to 1,25 kg O_2/kWh
For solar operation	
24 V LiFePO4-batteries and solar controller	
Photovoltaic: 2 polycrystalline solar modules (IP65) a 150 Wp Dimensions 2 x (1508 x 680 x 31 mm)	Photovoltaic: 3 polycrystalline solar modules (IP65) a 150 Wp Dimensions 3 x (1508 x 680 x 31 mm)
Adjustable inclination of the solar modules from 0 to 45 °	
Floats	
Version PE: 2 floats (PE) connected with a bridge (PE) + Substructure for PV modules made of aluminum	Version PE: 2 floats (PE) connected with a bridge (PE) + Substructure for PV modules made of aluminum
Dimensions: (B x L) 1900 x 1510 mm	Dimensions: (B x L) 1539 x 2470 mm
Weight: 85kg	Weight: 105kg
OLOID: Height adjustable in 5 positions	OLOID: Height adjustable in 5 positions

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