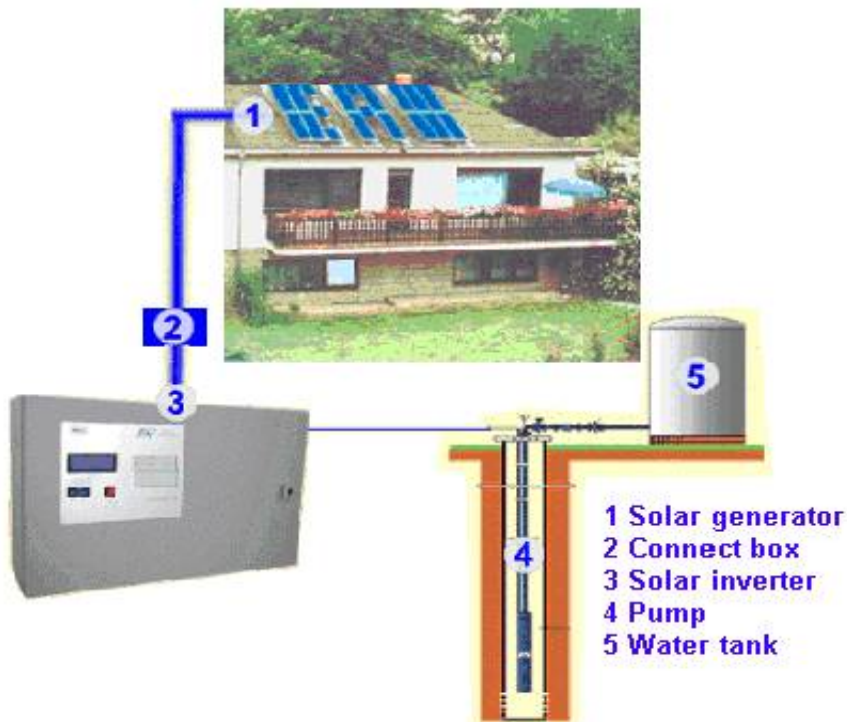


COMPLETE THREE-PHASE SOLAR PUMPING SYSTEM



**SOLAR INVERTER
SI3-I**

**SUBMERSIBLE
MOTOR PUMP FOR
WELL,
TYPE PO-SO/SS**

**OUTPUT CAPACITY
2 kW (ALTERNATIVE
3.5 kW OR 5 kW)**

A PRODUCT OF:

EAI Elektro- und Automatisierungstechnik GmbH

Bakenröder Str. 11 Tel +49 (0) 39452-964 0
38871 Ilsenburg Fax +49 (0) 39452-964 15
Germany

mails@eai-net.de
www.eai-net.de



- Elektrotechnik
- Antriebstechnik
- Automatisierungstechnik
- Messen - Steuern - Regeln

oddesse Pumpen- und Motorenfabrik GmbH

Am Pappelweg 12 Tel. +49 (0)3949-932 0
39387 Oschersleben Fax +49 (0)3949-932 463
Germany

info@oddesse.de
www.oddesse.de

oddesse

GENERAL

Our solar pump system is preliminary designed for water delivery use within in stand-alone systems. Out of the freely available sun light, the photovoltaic generators connected to the solar inverter SI3-I produce a three phase current. This supports stand-alone operation of single, robust three phase pump motors independent of the grid. (*Connection of further electrical consumers is possible.*)

FEATURES

- Use of technical three phase current (3x230 V, alternative 3x400 V)
- Simple, robust construction of pump motor
- Increased life expectancy
- Decreased power consumption
- Uniformed load distribution than possible with D.C. systems
- Solar inverter → Connection of further electrical consumers (230 V) possible
- Offering of complete turn key systems, mobile and stationary



Submersible motor pump
Range 4 inch

Type: po-so-1,6...10-/4.3



Display Solar Inverter

Type: SI3-I



TECHNICAL DATA

- Inverter Type: SI3-I-2-230
- Rated Power: 2000 W
- Max. Continuous Load: 2300 W
- Input Voltage: 120 – 500 VDC
- Output Voltage: 3 x 230 VAC \pm 10 %
- Output frequency: 50 Hz
- MPP frequenz: 30...60 Hz
- Conform: CE

Submersible motor pump for well

Specification Delivery Rate (sample):

- Type: po-so-1,6-24/4.3
- Motor:
- Voltage: 3 X 230 V, 50 Hz/60 Hz
- Current: 5,5 A
- Rated Power: 1,1 kW/1,8 kW

Delivery Data:

- Height h_{max} = 141 m; Flow $Q=0,3$ m³/h min.
- Height h_{rated} = 95 m; Flow $Q=1,6$ m³/h
- Height h_{min} = 13 m; Flow $Q=2,7$ m³/h max.

O&M UNIT

Display of following data:

- Solar cell voltage in V
- Solar cell current in A
- Solar cell power in W
- Output voltage in V
- Output current in A
- Instantaneous output power in W
- Output frequency in Hz
- Power factor ($\cos\phi$) – load
- Generated energy after restart in kWh
- Max./min. daily output in W (same for day, week, month)

Output of error/ fault messages:

- Solar cell voltage too low
- Short circuit of output
- Heat sink temperature too high
- Over load protection
- Power factor monitoring $\cos\phi$
- (Dry run protection)
- Unbalanced load monitoring

- Automation technology
- Construction of switch-gears
- **Renewable energy**
- Electronic control devices
- Metallurgy specific equipments

