

OFTOB ENERGY - Solar Pump Inverters



Power Range

Output Frequency: 0–400 Hz

Power Rating: 0.4–400 kW

Input Voltage Ranges:

1. DC150–450 V, Single-phase AC220 V
2. DC150–450 V, Three-phase AC220 V
3. DC250–800 V, Three-phase AC380 V
4. DC400–900 V, Three-phase AC480 V

Solar Inverters by OFTOB ENERGY Specially Designed for Water Pumping Systems

The solar inverters from **OFTOB ENERGY**, engineered specifically for water pumps, represent a completely new product line featuring upgraded software equipped with high-precision and fast **MPPT algorithms**.

The inverter continuously tracks the maximum power point of the solar array, ensuring the most efficient operation of the pump motor and delivering reliable performance for a wide range of water-supply applications.

The inverter supports both **DC input from the PV array** and **AC input**.

When the solar array cannot provide sufficient power (early morning, evening, cloudy weather, or low-irradiance conditions), the inverter can automatically switch to **AC grid power** or another available AC source, ensuring uninterrupted operation and meeting emergency water-demand requirements.

Application Areas (illustrations and photo examples):

Agricultural irrigation
Fountains
Livestock pastures
Fish ponds

Municipal water supply
Drainage and wastewater management
Roadside landscaping and irrigation



Technical Advantages

- Advanced MPPT algorithm with tracking accuracy $\geq 98\%$
- Dry-run protection and water-tank level control
- Simultaneous support for DC and AC input
- Automatic AC/DC switching function
- Built-in boost module (0.4–2.2 kW)
- Integrated RS485 communication
- Optional GPRS module for remote monitoring and parameter configuration
- LED display showing real-time system status
- Fast installation with no maintenance required
- Comprehensive built-in protection and diagnostic mechanism

