

SOLAR PUMPING INVERTER FOR AC PUMP

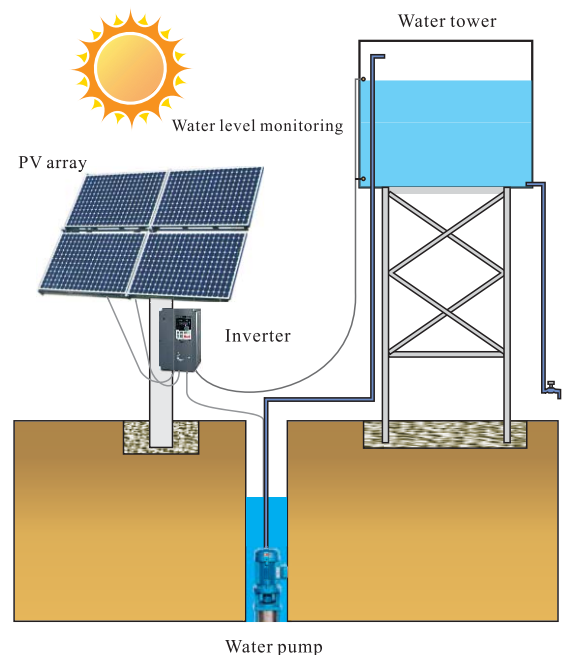


Professional Design Enjoy Sunshine

The PROPD AC solar pumping inverter is a variable speed motor driver designed to run any IEC three-phase asynchronous motor. The inverter provides current boosting combined with true Maximum Power Point Tracking (MPPT) of the solar modules. In cloudy weather, the controller can be switched to an alternate single-phase or three-phase AC input from grid, generator or inverter from battery, if available. The inverter is entirely self-configuring with functions of fault detection, motor soft start, and speed control and it requires no setup or adjustment by the user to ensure proper operation.

FEATURES

- Self-adaptive MPPT technology to maximize power output.
- Dry running mode monitoring treatment.
- Tank water level control
- DC and AC power inputs with manually-switching to generator back-up.
- LED display for indicating real-time system status.
- Remote monitoring capability through a RS-485 interface.
- Soft start feature prevents water hammer and increases system life.
- Simple installation and no required maintenance.
- Build-in diagnostics and protection.
- Plug-and-play system design.
- Embedded pump functions.
- Optional IP65 Control Box.



PROJOY

| Inverter Model | PROPD-2ST400 | PROPD-2ST750 | PROPD-2ST1500 | PROPD-2ST2200 | PROPD-2ST4000 | PROPD-2ST5500 | PROPD-4T750 | PROPD-4T1500 | PROPD-4T2200 |
|-------------------------------|--|--------------|---------------|---------------|---------------|---------------|-------------------------|--------------|--------------|
| Input Data | | | | | | | | | |
| PV Source | | | | | | | | | |
| Max Input Voltage | 450V | | | | | | 750V | | |
| Min Input Voltage | 200V | | | | | | 350V | | |
| Recommended MPPT Range | 200V~380V | | | | | | 450V~610V | | |
| Max Amps Input | 2.2A | 4.2A | 7.3A | 10.0A | 17.5A | 25.8A | 2.2A | 4.0A | 5.3A |
| Alternate AC Generator | | | | | | | | | |
| Input voltage | 220/230/240V(±15%), 1PH/3PH | | | | | | 380/400/415V(±15%), 3PH | | |
| Max Amps(RMS) | 5.4A | 8.2A | 14A | 23A | 35A | 50A | 3.4A | 5A | 5.8A |
| Power and VA capability | 1kW | 1.5kW | 3.0kW | 4.0kW | 7.5kW | 10kW | 1.5kW | 3.0kW | 4.0kW |
| Output Data | | | | | | | | | |
| Output Power, rated | 0.4kW | 0.75kW | 1.5kW | 2.2kW | 4kW | 5.5kW | 0.75kW | 1.5kW | 2.2kW |
| Output Voltage, rated | 220/230/240V AC, 3PH | | | | | | 380/400/415V AC, 3PH | | |
| Max Amps(RMS) | 2.3A | 4.0A | 7.0A | 9.6A | 17A | 25A | 2.1A | 3.7A | 5.0A |
| Output Frequency | 0-50Hz/60Hz | | | | | | 0-50Hz/60Hz | | |
| Protection | | | | | | | | | |
| Surge Protection | Integrated | | | | | | | | |
| Overvoltage Protection | Integrated | | | | | | | | |
| Undervoltage Protection | Integrated | | | | | | | | |
| Locked Pump Protection | Integrated | | | | | | | | |
| Open Circuit Protection | Integrated | | | | | | | | |
| Short Circuit Protection | No | | | | | | | | |
| Overheated Protection | Integrated | | | | | | | | |
| Dry Run Protection | Integrated | | | | | | | | |
| Communication | | | | | | | | | |
| MODBUS Communication Card | Optional, RS-485 isolated | | | | | | | | |
| General Data | | | | | | | | | |
| Ambient Temperature Range | -10℃~40℃ (>40℃, Derating as required) | | | | | | | | |
| Cooling Method | Fan Cooling | | | | | | | | |
| Ambient Humidity | ≤ 95% | | | | | | | | |
| Dimensions(H*W*D)(MM) | 185*120*165 | 220*150*182 | 220*150*182 | | | 360*220*225 | 185*120*165 | | |
| Gross Weight | 2.5kg | | | 3.7kg | | 10kg | 2.5kg | | |
| Standard Warranty | 24 months | | | | | | | | |
| Certificates | IEC/EN 61800-5-1, IEC/EN 61800-2:2004, IEC/EN 61800-3:2004, CE | | | | | | | | |
| Inverter Max. Efficiency | 97% | | | | | | | | |
| IP | IP20 | | | | | | | | |

