

Franklin Solar Pump Controller

This type of control panels are designed to operate motors with energy drawn from photovoltaic cells (PV). The inverter is customized to operate in dual supply mode, so the grid connected supply is used in the absence of energy from PV cells. A four-pole changeover switch enables switching between the two supply modes.

It's fully electronic type of control panel fitted with ABB or Siemens make inverter which starts automatically if current DC bus voltage is more than the start DC voltage set in parameter. The inverter functions with the latest in technology maximum power point tracking (MPPT) algorithm to derive maximum power from the PV cells at any instant. The working principles is closely related with the VSD panels



Features of Solar Inverter Control Panels:

- It's an automatic design functions based on the DC input voltage from the solar modules.
- Customised to operate in dual power mode, Solar / Grid supply.
- Complete motor protections in both the modes against supply faults.
- Modular design of the power circuits for simpler maintenance routines.
- Support for standard communication protocols (Modbus, Profibus, Device Net, TCP/ IP etc.)
- All components are equipped in a powder coated sheet steel enclosures with proper cooling arrangements.

| 3 PHASE 400 V OUTPUT - SOLAR PUMP CONTROLLER | | | | |
|--|-----------------|-----------|------------------------|---------|
| Panel Model | Motor Kw Rating | Motor FLC | Required VFD Rating Kw | VFD FLC |
| Solar Pump Controller Fully Automatic Control Panel with On Off selector Switch, ABB or Siemens Make inverter, output chokes operating distance 120m without voltage drop, Change-over switch for solar / EB functioning, short circuit protections in a powder coated sheet steel enclosure with lock & Key | 0.5 | 2.3 A | 0.75 | 5 A |
| | 0.75 | 2.8 A | 1 | 5 A |
| | 1 | 3.8 A | 1.5 | 10 A |
| | 1.5 | 4.6 A | 2 | 10 A |
| | 2 | 7.0 A | 3 | 13 A |
| | 3 | 9.0 A | 4 | 13 A |
| | 4 | 10.3 A | 5.5 | 13 A |
| | 5.5 | 14.0 A | 7.5 | 18 A |
| | 7.5 | 18.5 A | 10 | 23 A |
| | 11 | 25.0 A | 15 | 31 A |
| | 15 | 33.0 A | 20 | 38 A |
| | 18.5 | 42.5 A | 25 | 44 A |
| 22 | 50.3 A | 30 | 53 A | |