



FRENIC- Ace Solar Pumping

Fuji Electric Solar Firmware

Fuji Electric's FRENIC - Ace is converted with special firmware where our team of professionals flashes the drive with solar firmware. Our Solar drives allow autonomous systems without human supervision – specific functions to ensure a continuous operation. Our VFDs start the pump when the conditions (irradiation) are suitable and always obtain the maximum power from the solar panels, thanks to the function of Maximum Power Point Tracking (MPPT).

The system stops the pump if its rotation speed is low, or if there is insufficient power available from the PV panel, or according to the water level detection or in case of operation in dry well condition, etc. The system can also be supplied simultaneously by Photovoltaic panels (DC), and by a Generator / Grid connection (AC) in case of insufficient solar energy. Easy commissioning and much more!



Features & Benefits

- True and outstanding MPPT function (Maximum Power Point Tracking)
- Start criteria by system conditions and time, Stop criteria selectable by frequency or power
- Dry pump detection function & Low power function
- It allows to control asynchronous motors and permanent magnets synchronous motors
- Detection of sudden changes of conditions (especially irradiance)
- Two sets of PID gains for a fast and smooth operation & Water tank level control
- Grid connection selectable for maintenance and backup system
- Solar Pumping with "off grid", selectable power and assisted power applications