

**PRODUCT DETAILS**

The Bianco NXT Flexi-Solar pump controller is a variable speed drive designed for three-phase asynchronous motors and permanent magnet synchronous motors.

High-voltage DC power from a solar array is converted into AC power to drive the pump. When the solar energy drops, the controller can automatically switch to a backup AC power source, such as generator or battery storage

The incoming power source can be DC, AC or a combination of both.



**APPLICATIONS**

- Off-grid pumping
- Combining Solar DC and locally generated AC power to reduce running costs of ICE power generation
- Powering standard 3 phase pumps with asynchronous motors

**FEATURES**

- Hybrid DC/AC controller
- Pump protection and control
- Motor soft starting
- Speed control
- Fault monitoring and Protection
- Multi pump control. 1 master and up to 5 auxiliary controllers
- Optimised pump performance - Solar Maximum Power Point Tracking (MPPT)



**TECHNICAL DATA**

|                                    |                    |
|------------------------------------|--------------------|
| <b>MAXIMUM DC VOLTAGE</b>          | 450V DC            |
| <b>STARTUP DC VOLTAGE</b>          | 100V DC            |
| <b>LOWEST DC VOLTAGE</b>           | 70V DC             |
| <b>RECOMMENDED MPPT DC VOLTAGE</b> | 200 - 450V DC      |
| <b>BEST DC WORKING VOLTAGE</b>     | 330V DC            |
| <b>INPUT AC VOLTAGE</b>            | 150 - 230V 1 phase |
| <b>AC INPUT FREQUENCY</b>          | 50 / 60Hz          |
| <b>INPUT CIRCUITS</b>              | 1 pair MC4         |

|                            |                     |
|----------------------------|---------------------|
| <b>OUTPUT VOLTAGE</b>      | 230V 3 phase        |
| <b>RATED CURRENT</b>       | 9.6 amps            |
| <b>POWER OUTPUT</b>        | 2.2 kW nominal      |
| <b>PROTECTION CLASS</b>    | IP65                |
| <b>WORKING TEMPERATURE</b> | 20 to 60° C ambient |
| <b>COOLING</b>             | Air cooled          |
| <b>EXTERNAL DIMENSIONS</b> | 396W x 371D x 184H  |
| <b>WEIGHT (KG)</b>         | 12.1 kg             |