

230V Solar VSD Pump Controller (AC input)

Microcare products are designed and developed locally with extensive field testing completed before the manufacturing process begins. Ideal for South African conditions the Microcare Solar VSD Pump Controllers are designed to provide power to remote applications of motors and pumps. Driven by local innovation the unit is a Maximum Power Point Tracker (MPPT) facilitating a maximum power generation for efficient usage. With its variable speed selectable control and flow switch input the unit is able to offer a true Solar Pump Controller capable of producing high efficiency and maximum power output. The unique built in overdrive feature allows for a lower PV voltage operation.



- AC Input to allow shared power usage & operation from the Grid or AC source
- PV Panel Input Voltage of 265–550 VDC
- Compatible with single & three-phase 220V motors that are VSD approved
- LED status feedback
- High – Low water input connectors
- Float switch input
- Trip and restart controls
- Built in Variable Speed Drive (VSD)
- Surge Protection
- Unique overdrive feature allows lower PV Voltage operation than is currently available on the market
- IP44 rated
- No external enclosure box required
- Cost effective installation
- Available with comms port for Wi-Fi connection

MODEL	kW (3ph) 1.2kW (1ph) Pump Controller	3kW (3ph) 1.5kW (1ph) Pump Controller
PV V _{OC} RANGE	365 – 550V	
PV V _{MP} RANGE	265 – 400V	
RECOMMENDED PV V _{MP} (MAX EFFICIENCY)	310 V _{MP}	
RATED OUTPUT POWER SINGLE-PHASE	1,1kW	1.5kW
RATED OUTPUT POWER THREE-PHASE	2kW	3 kW
AC INPUT	220V Single Phase	
FREQUENCY RANGE	30–50Hz (Programmable)	
AMBIENT TEMP RANGE	–15 to 40°C	
PROTECTION	Overload, Short Circuit, Over Temperature, Under Voltage, Over Voltage, Surge Protection	
DIMENSIONS (H x W x D)	29 x 24 x 12cm	
WARRANTY	3 years	