

5.5kW Three-Phase Solar VSD Pump Controller

Microcare products are designed and developed locally with extensive field testing before the manufacturing process begins. Ideal for South African conditions the Microcare Three Phase Solar VSD Pump Controller is designed to provide power to remote applications of motors and pumps. Driven by 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.



- Surge Protection
- PV Panel Input Voltage of 450-1000 V_{DC}
- Compatible with three-phase 220V & 380V 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)
- 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

Output Voltage (VAC)	380 Three- Phase	400 Three- Phase	410 Three- Phase	200 Three- Phase	220 Three- Phase	230 Three- Phase	240 Three- Phase	219 Three- Phase	379 Three- Phase
Rated Output Power	5.5kW			3kW					5.5kW
Max PV VOC Input	850VDC			650VDC					
Min PV Start Up VOC (VDC)	>537	>565	>580	>285	>310	>325	>339	>180	>300
Recommended PV VMP (VDC)	530	565	580	280	310	325	340	310	530
Frequency Range	5-65Hz (Programmable)								
Ambient Temp Range	0 - 40°C								
Protection	Overload, Short Circuit, Over Temperature, Under Voltage, Over Voltage, Surge Protection								
Dimensions (H x W x D)	285 x 240 x 120mm								
Warranty	3 years								