

Pure Sine Wave Inverter - 10 & 15kW

Microcare Inverters are Pure Sine Wave Bi-Directional Inverters designed to obtain optimum inverted AC power from an installed DC Solar System. Using the latest in-house designed software the Microcare Inverter is able to improve the automatic change-over from the grid to the inverter allowing for an uninterrupted power supply to a range of applications from a sensitive server room to industrial machines. The locally designed Microcare Inverter is able to anticipate load failure by pre-charging the circuits for rapid transfer of power and change-over. When the grid power returns with a fluctuating voltage, the Microcare Inverter delays the transfer to a set connection time to avoid any load damage. Microcare Inverters use galvanic isolation resulting in the product being highly robust and reliable with low standby current and high efficiency ratings.



- Available for 36/48 (VDC) systems with output power of 10-15kW
- LCD display and low idle current
- High surge capacity for motor start
- Timed overload capacity with auto shutdown
- 3-Attempt auto restart with short circuit protection
- Built in, high rate, multi-stage battery charger
- Minimum local service turnaround time with a 3 year warranty
- Fan cooling for optimum performance and component longevity
- Audible buzzer indicating faults, overload and status
- Available with a Comms Module for Wi-Fi access

	Model	10kW		15kW
Capacity	Watt	10 000W		15 000W
DC Input	Voltage (V _{DC})	36V	48V	48V
	Peak current draw (I _{DC})	333A	250A	375A
	Standby power draw (W)	100W		150W
AC Output	Voltage (V _{AC})	230V		
	Amps (A)	44A (63A at 200% output)		65A (80A at 200% output)
	Peak Power	200%		
	Voltage regulation	<3% for full range		
	Frequency (Hz)	50Hz		
	Power factor	1		
	Wave form	Pure Sine Wave		
	Peak efficiency (%)	<94%		
	Hardware protection	Circuit Breaker		
	Overload protection	Programmable Overload Levels and Auto Retry		
DC Charger	Voltage float (V _{DC})	41.4V	55.2V	55.2V
	Voltage boost (V _{DC})	42.9 – 46.5V	57.2 – 62V	57.2 – 62V
	Peak Current (I _{DC})	140A	100A	100A
	Boost Time (Hours)	1 - 3 (Selectable)		