

## Pure Sine Wave Inverter - 1,2,3,5kW

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 12/24/36/48 (V<sub>DC</sub>) systems
- Output power from 1 – 5kW
- 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, two-stage battery charger
- Minimum local service turnaround time
- 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	1kW				2kW				3kW			5kW		
<b>Capacity</b>	Watt (W)	1000W				2000W				3000W			5000W		
<b>DC Input</b>	Nominal Voltage (V <sub>DC</sub> )	12	24	36	48	12	24	36	48	24	36	48	24	36	48
	Max Input Amps	100	50	33	25	200	100	66	50	150	100	75	250	166	125
	Standby Power	15W				25W				40W			60W		
<b>AC Output</b>	Voltage (V <sub>AC</sub> )	230V													
	Amps (A)	5A				10A				14A			22A		
	Voltage Regulation	<3% RMS for entire battery voltage range													
	Frequency	50Hz													
	Frequency Regulation	±0.1Hz													
	Power factor	1													
	Wave form	Pure Sine Wave													
	Peak Efficiency	94%													
<b>Charger</b>	Protection	Hardware Protection - Circuit Breaker Overload Protection - Programmable Overload Levels and Auto Retry													
	Float Voltage (V <sub>DC</sub> )	13.8	27.6	41.4	55.2	13.8	27.6	41.4	55.2	27.6	41.4	55.2	27.6	41.4	55.2
	Maximum Current (A)	40	20	15	10	80	40	30	20	60	40	30	100	70	50
	Boost Time	Selectable 1,2 or 3 hours													