

1 | 2 | 3kW Pure Sine Wave Inverters

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_{DC}) systems
- Output power from 1 – 3kW
- 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		
Capacity	Watt (W)	1000W				2000W				3000W		
DC Input	Nominal Voltage (V _{DC})	12	24	36	48	12	24	36	48	24	36	48
	Max Input Amps	100	50	33	25	200	100	66	50	150	100	75
	Standby Power	15W				25W				40W		
AC Output	Voltage (V _{AC})	230V										
	Amps (A)	5A				10A				14A		
	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%										
Protection	Hardware Protection - Circuit Breaker Overload Protection - Programmable Overload Levels and Auto Retry											
Charger	Float Voltage (V _{DC})	13.8	27.6	41.4	55.2	13.8	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
	Boost Time	Selectable 1,2 or 3 hours										