

## 5 | 8kW 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 ( $V_{DC}$ ) systems - 5kW (24/36/48V) 8kW (48V)
- Output power from 5-8kW
- 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
- Inverter Output power is de-rated at high ambient temperature

	Model	5kW			8kW
<b>Capacity</b>	Watt (W)	5000W			8000W
<b>DC Input</b>	Nominal Voltage ( $V_{DC}$ )	24	36	48	48
	Max Input Amps	250	166	125	200
	Standby Power	60W			90W
<b>AC Output</b>	Voltage ( $V_{AC}$ )	230V			
	Amps (A)	22A			35A
	Voltage Regulation	<3% RMS for entire battery voltage range			
	Frequency	50Hz			
	Frequency Regulation	$\pm 0.1$ Hz			
	Power factor	1			
	Wave form	Pure Sine Wave			
	Peak Efficiency	94%			
Protection	Hardware Protection - Circuit Breaker Overload Protection - Programmable Overload Levels and Auto Retry				
<b>Charger</b>	Float Voltage ( $V_{DC}$ )	27.6	41.4	55.2	55.2
	Maximum Current (A)	100	70	50	80
	Boost Time	Selectable 1,2 or 3 hours			