

## 5kW | 8kW Bi-Directional Inverters

### Locally Manufactured & Serviced

- Microcare is a local brand of Solar Products designed, developed & manufactured in South Africa since 1990. The Microcare 10kW & 15kW Inverters are Bi-Directional Transformer-Based Solar Inverters with built-in battery chargers. Products are locally serviced at the factory & the Inverters carry a 5-year warranty.

### Bi-Directional

- The Inverter automatically detects the availability of solar (DC) power and/or grid (AC) supply & adapts the operation mode from Inverter to charger as per the load requirements.
- The Inverter will charge the battery using AC supply if solar (DC) power is not available.
- All Microcare Inverters come standard with a Built-in, high-rate, multi-stage battery charger.

### Transformer-Based

- The Microcare Inverter is able to handle a large inrush of power & tolerate any high & low spikes from the grid thanks to the built-in transformer.
- The Inverter will anticipate load failure by pre-charging the circuits for rapid high speed AC transfer of power and change-over.
- This allows for an uninterrupted power supply to a wide range of applications from a sensitive server room to a robust industrial machine.
- When the grid power returns with a fluctuating voltage, the Microcare Inverter can delay the auto-transfer to a set connection time to avoid any load damage.



### Built for Africa

- Microcare Inverters are highly robust, reliable products with a high efficiency rating, low standby current required & short circuit protection.
- Units are Compatible with Generators and generate high surge capacity for any motor start.
- If the unit is overloaded a 3-Attempt auto restart will commence before a timed overload will begin a shutdown.
- Units come with additional fan cooling for optimum performance and component longevity.

### Adaptable & Versatile

- The Microcare Inverter can be used in UPS, Solar, Hybrid or Loadshed mode.
- All Inverters are compatible with Lithium Ion Batteries.
- And come with a built-in Comms Module for online solar monitoring.
- Inverters are Three-Phase capable when the master Inverter is paralleled with 2 slave Inverters.
- This Pure Sine Wave Inverter comes with an audible buzzer indicating faults, overload and status.

	MODEL	5kW			8kW
<b>CAPACITY</b>	<b>Watt (W)</b>	<b>5000W</b>			<b>8000W</b>
<b>DC INPUT</b>	<b>Voltage (Vdc)</b>	<b>24</b>	<b>36</b>	<b>48</b>	
	<b>Max Input Amps</b>	<b>250</b>	<b>166</b>	<b>125</b>	<b>375A</b>
	<b>Standby power draw (W)</b>	<b>60W</b>			<b>90W</b>
<b>AC OUTPUT</b>	<b>Voltage (VAC)</b>	<b>230V</b>			
	<b>Amps (A)</b>	<b>22A</b>			<b>35A</b>
	<b>Voltage regulation</b>	<b>&lt; 3% RMS for full battery voltage range</b>			
	<b>Frequency (Hz)</b>	<b>50Hz</b>			
	<b>Frequency Regulation</b>	<b>± 0.1Hz</b>			
	<b>Power factor</b>	<b>1</b>			
	<b>Wave form</b>	<b>Pure Sine Wave</b>			
	<b>Peak efficiency (%)</b>	<b>&lt; 94%</b>			
	<b>Hardware protection</b>	<b>Circuit Breaker</b>			
	<b>Overload protection</b>	<b>Programmable Overload Levels &amp; Auto Retry</b>			
<b>DC CHARGER</b>	<b>Float Voltage (Vdc)</b>	<b>27.6</b>	<b>41.4</b>	<b>55.2</b>	<b>55.2</b>
	<b>Maximum Current (A)</b>	<b>100</b>	<b>70</b>	<b>50</b>	<b>80</b>
	<b>Boost Time (Hours)</b>	<b>1 - 3 hrs (Selectable)</b>			
<b>DIMENSIONS</b>	<b>L x W x D</b>	<b>57 x 36 x 23cm</b>			<b>64 x 42 x 24cm</b>