

## 10kW | 15kW 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 in rush 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	10kW	15kW
CAPACITY	Watt (W)	10 000W	15 000W
	Voltage (V <sub>DC</sub> )	48V	
DC INPUT	Peak current draw (I <sub>DC</sub> )	250A	375A
	Standby power draw (W)	100W	150W
	Voltage (V <sub>AC</sub> )	230V	
AC OUTPUT	Amps (A)	44A (63A at 200% output)	65A (80A at 200% output)
	Peak Power	200%	
	Voltage regulation	< 3% RMS for full battery voltage range	
	Frequency (Hz)	50Hz	
	Power factor	1	
	Wave form	Pure Sine Wave	
	Peak efficiency (%)	< 94%	
	Hardware protection	Circuit Breaker	
	Overload protection	Programmable Overload Levels & Auto Retry	
	DC CHARGER	Voltage float (V <sub>DC</sub> )	55.2V
Voltage boost (V <sub>DC</sub> )		57.2 – 62V	
Peak Current (I <sub>DC</sub> )		100A	
Boost Time (Hours)		1 – 3 hrs (Selectable)	
DIMENSIONS	L x W x D	88 x 43 x 43cm	105 x 52 x 45cm