

3kW 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
- 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.
- Invertors are Three-Phase canable when the master Invertor is naralleled with 2 slave Invertors

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	MODEL	1kW				2kW				3kW			
CAPACITY	Watt (W)	1000W				2000W				3000W			
DC INPUT	Voltage (VDC)	12	24	36	48	12	24	36	48	24	36	48	
	Peak current draw (IDC)	100	50	33	25	200	100	66	50	150	100	75	
	Standby power draw (W)	15W				25W				40W			
AC OUTPUT	Voltage (VAC)	230V											
	Amps (A)	5A			10A				14A				
	Voltage regulation	< 3% RMS for full battery voltage range											
	Frequency (Hz)	50Hz											
	Frequency Regulation	±0.1Hz											
	Power factor	1											
	Wave form	Pure Sine Wave											
	Peak efficiency (%)	< 94%											
	Hardware protection		Circuit Breaker										
	Overload protection	Programmable Overload Levels & Auto Retry											





Float Voltage (VDC)

Maximum Current (A)

Boost Time (Hours)

LxWxD

41.4

55.2 27.6

60

20

DC

CHARGER

DIMENSIONS

46 x 29 x 20cm

27.6 41.4

15

20

13.8

40

55.2 13.8

80

10

27.6

40

1 - 3 hrs (Selectable)

56 x 36 x 25cm

41.4

40

56 x 36 x 25cm

55.2

30