

### Features

- **Core Integrated Hardware :**
  - 5kW Sunsynk® Pure Sine Wave Inverter incl. 2 x MPPT Solar Charge Controllers.
  - 5.2kWh RacPower BP LiFePO4 Battery.
  - Integrated distribution board.
- **Other features:**
  - Serial (CAN) communication
  - Pre-configured for UPS applications.
  - Solar-configurable via inverter UI.
  - 10 Year battery & 5 year inverter warranties.



### Technical Specifications

#### COMPACT POWER STATION

Dimensions (W x D x H)	69 x 30 x 64cm (main unit)   52 x 38 x 57cm (battery)
Weight (Total)	38kg (main unit)   56kg (battery)

#### INVERTER SPECIFICS: SUNSYNK 5kW

BATTERY INPUT	
Battery Voltage Range	40V ~ 60V
Max. Charging Current	120A
Max. Discharging Current	120A
PV STRING INPUT	
Max. DC Input Power	6 500W
Max. DC Input Voltage	500V
MPPT Voltage Range	125V ~ 425V
Start-up Voltage	150V
Max. Input Current	11A + 11A (2 x MPPT Trackers)
AC OUTPUT	
Rated Power	5 000W
Peak Power (off-grid)	10 000W (10 seconds max.)
Max. AC Current	21.7A
Output Voltage & Frequency	230VAC / 50Hz (single phase)
EFFICIENCY	
Max. Efficiency	97.6%
MPPT Efficiency	96.5%
GENERAL DATA	
Operating Temperature Range	-25°C ~ 60°C (derating at >45°C)
IP Rating	IP65
Warranty	5 Years
South African Certification	NRS097-2-1:2017 Edition 2

### Features

- **Ultra-efficient LiFePO<sub>4</sub> electrochemistry**
  - Capable of 5.2kW (1C) sustained power output.
  - Fully rechargeable in just 2 hours.
- **Durability guaranteed with proper use**
  - Designed to last for 4500+ cycles under recommended operating conditions.
- **Wide scope of peripheral integrations**
  - Serial / CAN-compatible with inverters & relevant modules of industry-leading brands.
  - Compatible with all other 48V pure sine wave inverters configurable to match voltage setpoints.
- **10 year product warranty.**



### Technical Specifications

#### GENERAL SPECIFICATIONS

Battery chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
Nominal voltage	51.2V
Ah rating	100Ah @C2, 25°C
Installed capacity @V <sub>nom</sub>	5 120Wh
Cycle life @100% DoD, 1C	2000 cycles (5 200Wh)
Cycle life @100% DoD, C2	3000 cycles (5 200Wh)
Cycle life @80% DoD, C2	4500 cycles (4 160Wh) Recommended continuous use
Internal resistance	≤ 50mΩ @1kHz AC

#### VOLTAGE

Operating voltage range	48.0V ~ 55.0V
Bulk voltage	55.0V ± 0.3V
Float voltage (recommended)	54.0V
Low voltage	48.0V

#### CURRENT

Charge current (max.)	50A continuous   ≤ 50A recommended
Discharge current (max.)	100A for 1 hour   ≤ 70A recommended
Self-discharge rate	Residual capacity: ≤ 3% per month   ≤ 15% per year Recover capacity: ≤ 1.5% per month   ≤ 8% per year

#### ENVIRONMENTAL REQUIREMENTS

Operating temperature range	@Charge: 0°C ~ +50°C @Discharge: -10°C ~ +50°C
Recommended operating environment	Temp. range: +15 ~ +35°C   Humidity: 5 ~ 75%RH
Storage environment (if stored ≤ 1 month)	Temp. range: -20 ~ +60°C   Humidity: 5 ~ 75%RH
Storage environment (if stored ≥ 3 months)	Temp. range: +10 ~ +45°C   Humidity: 5 ~ 75%RH

#### PHYSICAL ATTRIBUTES

Dimensions (excl. front panel & components*)	442mm x 435mm x 135mm (L x W x H)
Dimensions – Front panel (excl. components*)	465mm x 133mm (L x H)
Net weight (unboxed)	43.0kg
Serial communication compatibility	CAN and RS485

\* Refers to all fitted components protruding from the front plate of the battery, incl. handles, screws, terminal assembly & connectors.