

SOL-5M4 Combo

Mecer Axpert 5.6K MKS IV Inverter + 2x Mecer Dyness B3 3.5 kWh Lithium Battery + Battery Cable & Wall mount battery box

Product Overview

Mecer Axpert 5.6K MKS IV 5600VA / 5600W 48V Pure Sine Wave MPPT Inverter charger with 2x 3.5kW Batteries, Up to 9 Units Parallel capability, 10 ms transfer time, Pure Sine Wave Waveform, 93% efficiency (Peak), 48 VDC Battery Voltage, 450 VDC Maximum PV Array open Circuit Voltage, 6000 W Maximum PV Array Power, 2x Mecer Dyness B3 3.5 kWh Lithium Battery 48V DC, 1x Battery cable, 1x Wall Mount Rack Mount Box for Batteries



| INCLUDED IN THIS DEAL |                                                                                    |                        |                                                                                     |
|-----------------------|------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|
| 1                     |  | 1 X<br>SOL-I-AX-5M4    | 5600VA / 5600W Solar Inverter<br>6 000W MPPT   220Vac 48V DC                        |
| 2                     |  | 2 X<br>SOL-B-L-M3      | MECER 3.5kWh 48V Lithium<br>19" Rackmount Battery                                   |
| 3                     |  | 1 X<br>SOL-B-L-M-CABLE | MECER cable from battery to inverter<br>(power cable)<br>1 x Cable per Battery Bank |
| 4                     |  | 1 X<br>SOL-B-L-WM      | Wall Mount Bat Box –<br>2 x 3U Lithium Batteries                                    |





## Specifications

### Overview Summary:

The Mecer Axpert MKS IV 5.6kW inverter package provides a practical solar and backup power solution for South African homes and businesses. It includes a 5600W pure sine wave inverter charger and two 3.5kWh 48V lithium batteries, delivering 7.1kWh of battery storage.

With MPPT solar charging, built-in Wi-Fi monitoring and support for parallel operation, this system is designed for dependable energy management. Buy now for a reliable backup and solar power solution, or shop now to upgrade your power setup.

**Performance tier:**High-performance

**Uses:**Home backup power, load shedding protection, solar energy systems, small business backup, essential appliance power

### Overview:

#### **Mecer Axpert 5.6K MKS IV 5600VA 5600W 48V Inverter Charger with 2x Dyness B3 3.5kWh Lithium Batteries**

The Mecer Axpert 5.6K MKS IV is a 5600VA / 5600W pure sine wave inverter charger designed for reliable backup power and solar energy applications. With an integrated MPPT solar charge controller, the system can efficiently manage power from a solar array while charging a 48V battery bank.

This complete package includes the Axpert MKS IV inverter together with two Mecer Dyness B3 3.5kWh lithium batteries, providing a total nominal battery storage capacity of 7kWh. The inverter supports up to 6000W of solar PV power and can operate in parallel with up to nine units, making it suitable for applications where additional power capacity may be required.

The transformerless inverter design keeps the system compact while providing efficient power conversion. Built-in Wi-Fi also allows users to monitor the system from a mobile device, while stored inverter data makes it easier to track operating conditions and events.

### Description:

The Mecer Axpert 5.6K MKS IV combines a 5600W pure sine wave inverter, MPPT solar charging and lithium battery storage into a practical solar backup power solution. Its 48V battery architecture is paired with two Dyness B3 3.5kWh lithium batteries, while the inverter can handle up to 6000W of PV input.

For everyday monitoring, the built-in Wi-Fi function allows the inverter to be accessed through compatible Android and iOS

mobile applications. A large 4.3-inch colour LCD and customizable RGB status light ring provide convenient access to system information directly from the unit.

The system also supports USB On-The-Go for parameter updates, data downloads and software updates. A dedicated BMS communication port allows communication with compatible battery management systems, helping the inverter and batteries work together efficiently.

The included Dyness lithium batteries use lithium iron phosphate cells and independent battery management systems. The BMS monitors and manages each battery module, helping support safe operation, effective energy management and long service life.

## **Features:**

### **Mecer Axpert 5.6K MKS IV Solar Inverter**

The Axpert MKS IV uses an MPPT solar charge controller to regulate incoming DC power from the solar panels and maximize the available solar energy for battery charging. Its wide DC input range gives the system flexibility when designing a suitable solar array.

Key inverter specifications include:

- Rated capacity: 5600VA / 5600W
- Battery voltage: 48V DC
- Waveform: Pure sine wave
- Maximum PV array power: 6000W
- Maximum PV open-circuit voltage: 450V DC
- Peak efficiency: Up to 93%
- Transfer time: 10 ms
- Parallel operation: Up to 9 units
- Solar charging: Integrated MPPT controller
- Monitoring: Built-in Wi-Fi with Android and iOS app support
- Display: 4.3-inch colour LCD
- Connectivity: USB On-The-Go
- Battery communication: Dedicated BMS communication port

### **7kWh Dyness Lithium Battery Storage**

Two Mecer Dyness B3 3.5kWh lithium batteries are supplied with the system, providing a combined nominal storage capacity of 7kWh. The 48V DC battery modules are designed to work with the inverter as part of the complete solar power system.

Each battery incorporates an independent BMS for intelligent monitoring and management of the battery pack. Lithium iron phosphate cells provide a stable battery chemistry, while the compact module design helps make installation and system integration more practical.

Battery package includes:

- 2x Mecer Dyness B3 3.5kWh lithium batteries
- Total nominal storage capacity: 7kWh
- Battery voltage: 48V DC
- Independent BMS per battery module
- Lithium iron phosphate battery cells
- 1x Battery cable
- 1x Wall mount rack mount box for batteries

### **Solar Monitoring and System Management**

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The built-in Wi-Fi capability makes it possible to monitor the inverter from a compatible mobile application. Users can check operating information without needing to access the inverter directly, which is useful when the system is installed in a dedicated utility or equipment area.

The inverter can also store operational data and events internally. USB On-The-Go support provides additional options for downloading data, rewriting internal parameters and applying software updates.

### Expandable Parallel Operation

For installations that require more capacity, the Axpert MKS IV supports parallel operation with up to nine units. This allows compatible systems to be expanded beyond the capacity of a single inverter, subject to the appropriate system design and installation requirements.

### Complete Mecer Solar Backup Package

This Mecer Axpert package provides a combination of solar conversion, battery charging and lithium energy storage in one system. The 5600W inverter is suitable for backup power applications where a pure sine wave output and solar charging capability are required, while the two 3.5kWh batteries provide substantial energy storage for connected loads.

The included part number / SKU for this complete package is SOL-I-AX-5M4.

### What's Included

- Mecer Axpert 5.6K MKS IV 5600VA / 5600W 48V inverter charger
- 2x Mecer Dyness B3 3.5kWh 48V lithium batteries
- 1x Battery cable
- 1x Wall mount rack mount box for batteries

### Specifications:

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| <b>Specifications</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                        |
| <b>Product Code</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SOL-5M4 Combo                                                          |
| <b>Inverter</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |
| <b>MODEL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Axpert MKS IV 5600-48                                                  |
| <b>Rated Power</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5600VA/5600W                                                           |
| <b>Parallel Capability</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Yes, up to 9 units                                                     |
| <b>INPUT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                        |
| <b>Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 230 VAC                                                                |
| <b>Selectable Voltage Range</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 170-280 VAC (For Personal Computers), 90-280 VAC (For Home Appliances) |
| <b>Frequency Range</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 55/60 Hz (Auto sensing)                                                |
| <b>OUTPUT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                        |
| <b>AC Voltage Regulation (Batt. Mode)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 230 VAC +/- 5%                                                         |
| <b>Surge Power</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5600 VA                                                                |
| <b>Efficiency (Peak)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 93%                                                                    |

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|---------------------------------------|-------------------------------------------------------------|
| Transfer Time                         | 10 ms (For Personal Computers), 20 ms (For Home Appliances) |
| Waveform                              | Pure Sine Wave                                              |
| <b>BATTERY</b>                        |                                                             |
| Battery Voltage                       | 48 VDC                                                      |
| Floating Charge Voltage               | 54 VDC                                                      |
| Overcharge Protection                 | 66 VDC                                                      |
| <b>SOLAR CHARGER &amp; AC CHARGER</b> |                                                             |
| Maximum PV Array Open Circuit Voltage | 450 VDC                                                     |
| Maximum PV Array Power                | 6000 W                                                      |
| MPPT Range @ Operating Voltage        | 120 VDC~430 VDC                                             |
| Maximum Solar Charge Current          | 120A                                                        |
| Maximum AC Charge Current             | 120A                                                        |
| <b>PHYSICAL</b>                       |                                                             |
| Dimension, D X W X H (mm)             | 140 x 295 x 468                                             |
| Net Weight (kgs)                      | 12                                                          |
| Communication                         | USB/RS232/RS485/WiFi/Dry-contact                            |
| <b>OPERATING ENVIRONMENT</b>          |                                                             |
| Operating Humidity                    | 5% to 95% Relative Humidity(Non-condensing)                 |
| Operating Temperature                 | -10degreesC to 50degreesC                                   |
| Storage Temperature                   | -15degreesC to 60degreesC                                   |
| <b>Battery</b>                        |                                                             |
| Nominal Energy                        | 3.552kWh                                                    |
| Nominal Capacity                      | 74Ah                                                        |
| Nominal Voltage                       | 48V                                                         |
| Max. Continuous Discharge Current     | 50A                                                         |
| Max. Continuous Charge Current        | 50A                                                         |
| Charging Cut-Off Vol                  | 54V                                                         |
| Discharging End-Off Vol               | 40.5V                                                       |
| Net Weight                            | 30kg                                                        |
| Dimensions (W*D*H)                    | 480*360*133.5mm                                             |
| Protection Level                      | IP20                                                        |
| Calendar Life                         | 6000 Cycles                                                 |
| Charging Temperature Range            | 0~50°C                                                      |
| Discharging Temperature Range         | -20~50°C                                                    |
| Communication                         | CAN / RS485                                                 |
| Configuration                         | up to 142kWh total energy, 40 modules parallel at most      |

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Product Specification Sheet

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|-------------------------|------|
| <b>Recommend C Rate</b> | 0.5C |
|-------------------------|------|

### Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

**Product page:**

**<https://www.comx-computers.co.za/SOL-5M4-Combo-Mecer-Axpert-5-6K-MKS-IV-Inverter-2x-Buy-p-340727.php>**

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