

### ■ Description

Thank you for using the high efficiency and high quality pure sine wave inverter semi-finished energy storage kit of mobile power supply manufactured by KRECO.

The 1000W Inverter PCBA kit KRE-PI1000Wx uses pure sine wave technology and full power design, which is to facilitate manufacturers, factories in various countries to import mature semi-finished products of KRECO by means of CKD or SKD. It is also an innovative product that customers can assemble energy storage products in their own country after purchasing, and then sell them independently. It perfectly avoids customers' worries about technical shortcomings, high freight, high import tariffs, and dangerous goods battery transportation, and is a truly perfect solution.

The energy storage kit KRE-PI1000Wx is an inverter motherboard, does not contain a battery, a charging board, a shell configuration.

Please be sure to have a professional team or professional experience in lithium batteries to order assembly storage.

If you are not familiar with this industry, please do not purchase.

Please carefully read and fully understand this kit and know how to use the product to ensure that you can be familiar with the operation and use it correctly.

Be sure to install it safely.

### ■ Features

- Pure sine wave technology
- 1000W Full power design
- Protections: High temperature protection/ High temperature protection recovery/ Output short circuit protection/ Current limiting protection/ High voltage protection/ Low voltage protection/ Low voltage alarm/ Power temperature control fan/ Constant power overload protection
- **W/o batteries, W/o battery charging protection board**

■ KRECO P/N (optional Input DC Voltage)

| DC Input Voltage | 12VDC         | 24VDC         | 48VDC         | 60VDC         | OEM other voltage |
|------------------|---------------|---------------|---------------|---------------|-------------------|
| KRECO P/N        | KRE-PI1000W12 | KRE-PI1000W24 | KRE-PI1000W48 | KRE-PI1000W60 | Yes               |

■ Applications

- Storage power industry
- Consumer electronic devices
- Telecommunication devices
- Office facilities
- Industrial equipment



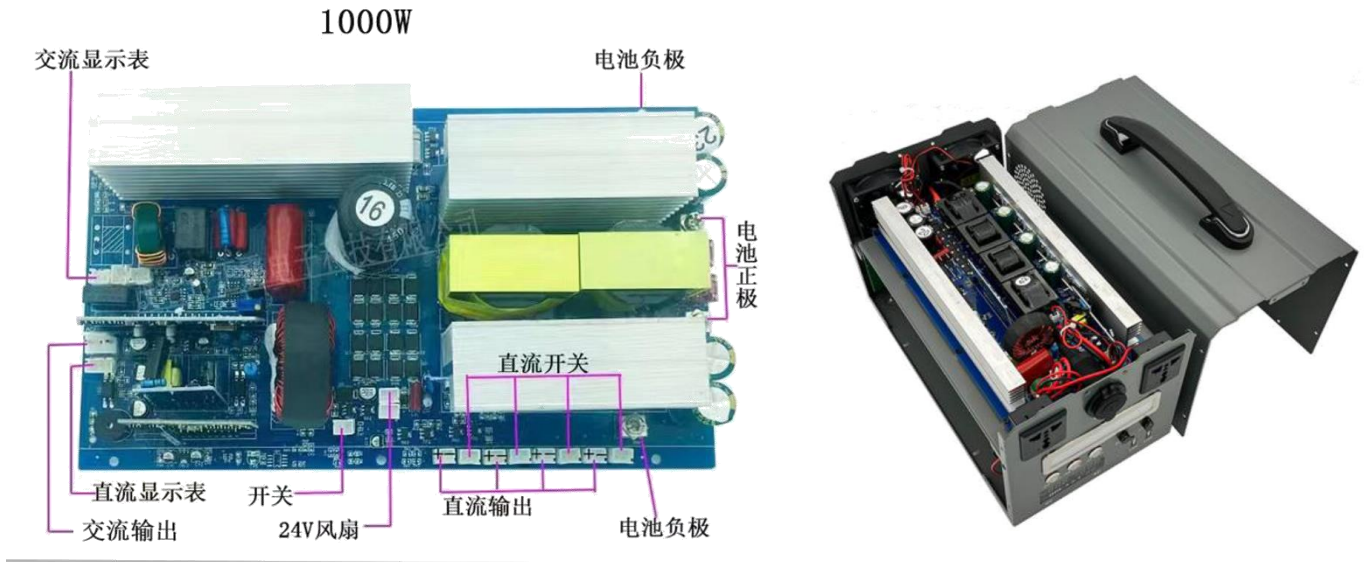
■ Specifications and Mechanical Characteristics

| Name  | Semi-finished energy storage power supply kit |  |
|---|---|--|
| Output technical parameters and configuration | Rated power                                   | 1000 W   |
|   | AC output voltage                             | 220~240Vac/ 115Vac available   |
|   | Waveform                                      | Pure sine wave   |
|   | Waveform distortion (THD)                     | ≤5%  |
|   | Frequency                                     | 50Hz (50/60Hz adjustable)  |
|   | Frequency range                               | ±0.5   |
|   | Continuous output power                       | 1000 W (resistive load)  |
|   | Peak power                                    | 2000 W   |
|   | AC universal socket                           | Support, 2 sockets /4.3 A AC/1   |
|   | Efficiency                                    | ≥ 87% (for efficiency test, the sampling point of DC voltage is the voltage at the input end of inverter PCB, the current sampling device (such as current shunt) shall be used for DC current sampling, and the output power meter of inverter shall be calibrated. When testing the efficiency of the inverter, the load used is a resistive load. |
|   | USB port                                      | Support, 2 ports 5V/3A DC  |
|   | Cigarette lighter socket                      | Support, 1 socket 12VDC 10A  |
|   | LCD screen                                    | Support, 1 display show DC voltage, AC voltage, Frequency, Battery Level   |
| DC Jack 2.1mm                                 | Support, 2 jacks, 12VDC                       |  |

|                                    |   |   |  |
|------------------------------------|---|---|--|
|                                    | Control switch  | Support, 3 switches to control AC output, USB, W/ LEDs  |  |
| <b>Input technical parameters</b>  | DC charging interface   | Support, 2 XT60E-Female connectors, W/o charger   |  |
|                                    | Battery voltage   | 12Vdc   | 24Vdc  |
|                                    | Voltage range   | Regular 9V-15.5V can be trimmed as required   | Regular 19-30.5V can be trimmed as required                              |
|                                    | Off Mode Quiescent Current  | ≤30uA   |  |
|                                    | Fan Operation Mode 1  | Temperature-controlled fan: the fan starts when the power reaches approximately 120W; the fan starts when the temperature reaches 40°C to 50°C. |  |
|                                    | Fan Operation Mode 2  | Pure temperature control: the fan starts when the temperature reaches 45°C; the fan stops when the temperature is below 40°C.                   |  |
|                                    | Cooling fan   | 2 fans  |  |
|                                    | At positive and negative terminals                                    | Tighten and fix the screw   |  |
|                                    | Battery type  | 12V 4-string lithium iron phosphate/<br>3-string ternary lithium battery  | 24V 8-string lithium iron phosphate/<br>7-string ternary lithium battery |
|                                    | Battery low voltage alarm   | 10±0.5V DC  | 20±0.5V DC   |
|                                    | Battery low voltage protection  | 9V off inverter output  | 19V off inverter output  |
|                                    | Battery high voltage protection                                       | 16V off inverter output   | 31V off inverter output  |
| <b>Output protections</b>          | High temperature protection   | 80°C  |  |
|                                    | High temperature protection recovery                                  | Restart below 60°C  |  |
|                                    | Output short circuit protection                                       | Automatic recovery of light short circuit, long short circuit exceeding 3 seconds to shut down the front/input stage, restart the machine.      |  |
|                                    | Current limiting protection   | Yes   |  |
|                                    | High voltage protection   | Yes   |  |
|                                    | Low voltage protection  | Yes   |  |
|                                    | Low voltage alarm   | Yes   |  |
|                                    | Power temperature control fan   | Yes   |  |
| Constant power overload protection | 1.7 times of the maximum output of constant power, automatic shutdown |   |  |
| <b>Environment</b>                 | Operating temperature   | -20°C ~ 50°C  |  |
|                                    | Storage temperature and humidity                                      | -40°C ~ 60°C, 10 ~ 95%RH  |  |
| <b>Volume and package</b>          | Body size   | 33 x 18.2 x 18.5cm (LxWXH)  |  |
|                                    | Size of battery compartment   | 24 x 17.8 x 9.8 cm (LxWXH)  |  |
|                                    | Package size of the complete set                                      | 41 x 26 x 27 cm (LxWXH)   |  |
|                                    | Bare metal weight   | Net weight: 5.0 kgs   |  |
|                                    | Weight of the complete set  | Gross weight: 5.5 kgs   |  |

■ **Outlook and Installation Example** Unit: cm

Recommend lithium iron phosphate/ ternary lithium battery



■ **Note**

- (1) AC universal socket type is for worldwide power plugs, more plugs type could be re-designed, or added to production order.
- (2) X= Input DC voltage, it is optional, according to design.
- (3) 1000W for Output power, what you are going to order, please must specify to sales.
- (4) Safety model number may differ from the order number, KRECO P/N number, and shape number as per respective OEM/ODM factories.
- (5) Please be sure to have a professional team or professional experience in lithium batteries to order assembly storage.
- (6) Please carefully read and fully understand this kit and know how to use the product to ensure that you can be familiar with the operation and use it correctly.
- (7) Be sure to install it safely.

■ **Disclaimer:**

Kreco is not responsible for any error, and reserves the right to make changes without notice.

Please visit our website at [www.krecocharger.com](http://www.krecocharger.com) or <https://www.ipskre.com> for the most up-to-date specifications and contact information.