# Inverter 3000va/3000w

ESENER


## Features

- Rated power: 1-3KW
- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Bult in MPPT 60A solar charge controller
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB, RS485 monitoring function
- WIFI remote monitoring (optional)
- Compatible to generator

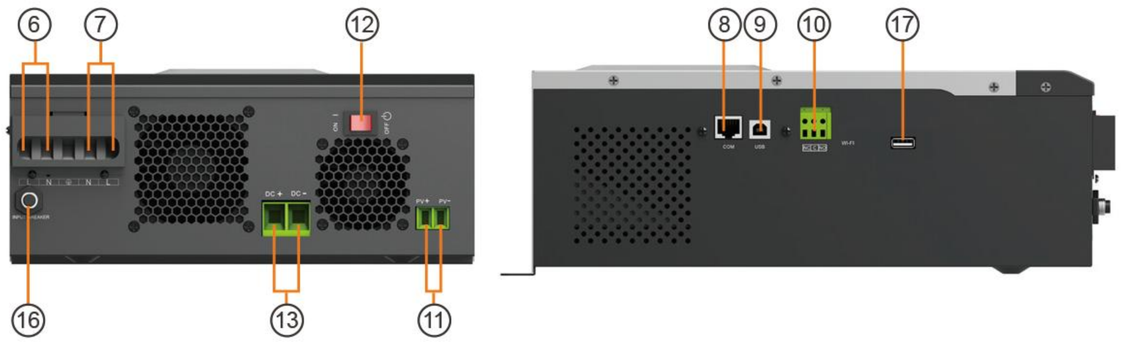
## Introduction

This is a multi-function inverter/charger, combining functions of inverter, MPPT 60A solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

## Back panel printing description

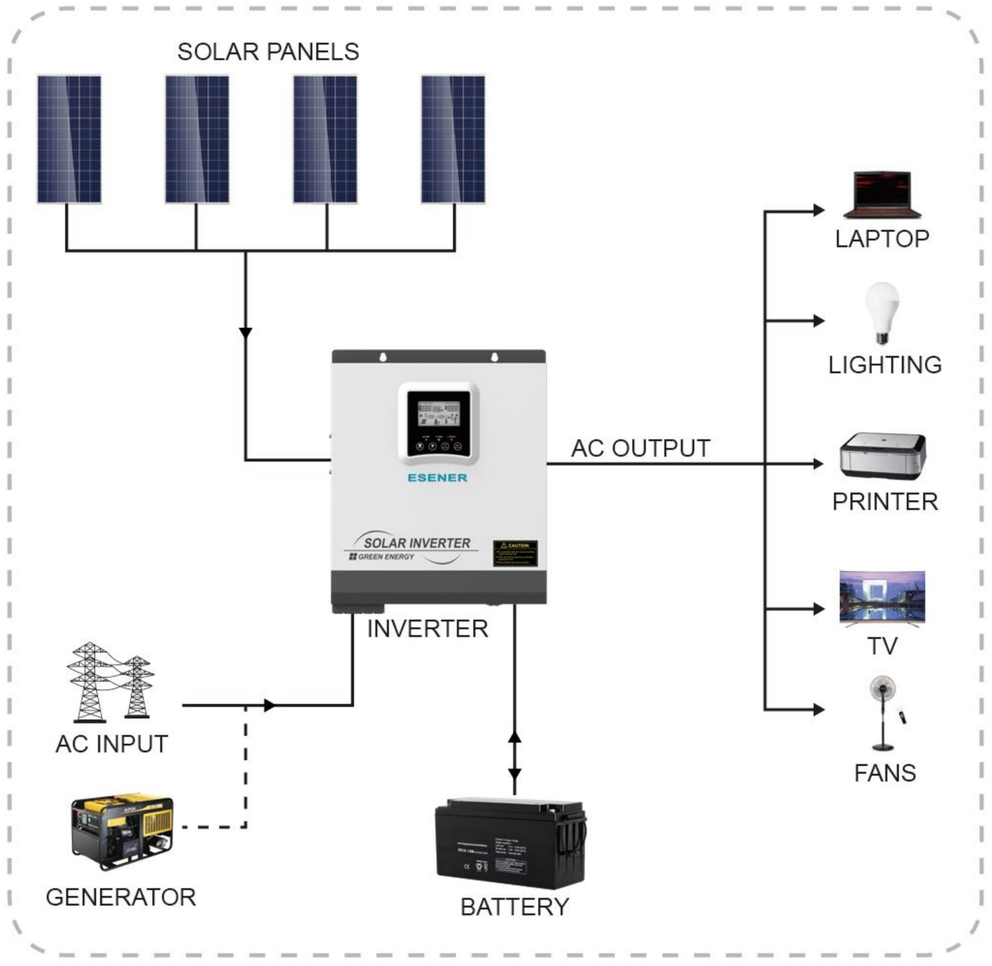

1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons

6. AC Input
7. AC Output
8. RS-485 Communication port
9. USB
10. Dry Contact
11. PV Input
12. Power On/Off Switch
13. Battery Input
14. Parallel communication port (only for parallel model)
15. Parallel switch
16. Circuit breaker
17. USB WiFi




ES-VPM Series (1KW ~3KW )

## Solar system connection



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## Specification

| MODEL | | ES-VPM-1012 | ES-VPM-2024 | ES-VPM-3024 |
|---|---|---|---|---|
| Default Battery System Voltage | | 12VDC | 24VDC | |
| INVERTER OUTPUT | Rated Power | 1000VA / 1000W | 2000VA / 2000W | 3000VA / 3000W |
| | Surge Power | 2000VA | 4000VA | 6000VA |
| | Waveform | Pure sine wave | | |
| | AC Voltage Regulation (Batt.Mode) | 220VAC~240VAC(Setting) | | |
| | Inverter Efficiency(Peak) | 90%~93% | | |
| | Transfer Time | 10ms(UPS / VDE4105) / 20ms(APL) | | |
| AC INPUT | Voltage | 230VAC | | |
| | Selectable Voltage Range | 170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE) | | |
| | Frequency Range | 50Hz / 60Hz (Auto sensing) | | |
| BATTERY | Normal voltage | 12VDC | 24VDC | |
| | Floating Charge Voltage | 13.7VDC | 27.4VDC | |
| | Overcharge Protection | 15VDC | 30VDC | |
| SOLAR CHARGER & AC CHARGER" | Maximum PV Array Open Circuit Voltage | 75VDC | 145VDC | |
| | PV Array MPPT Voltage Range | 15~75VDC | 30~120VDC | |
| | Standby Power Consumption | 2W | | |
| | Maximum PV Array Power | 625W | 1500W | |
| | Maximum Solar Charge Current | 60A | | |
| | Maximum Efficiency | 98% | | |
| | Maximum AC Charge Current | 10A or 20A | 20A or 30A | |
| | Maximum Charge Current | 70A | 80A | |
| MECHANICAL SPECIFICATIONS | Machine Dimensions (W*H*D)(mm) | 225*355*92 | 272*355*100 | |
| | Package Dimensions (W*H*D)(mm) | 410*300*178 | 425*390*215 | |
| | Net Weight(kg) | 5 | 7.4 | |
| | Gross Weight(kg) | 5.5 | 9.5 | |
| OTHER | Humidity | 5% to 95% Relativ Humidity (Non-condensing) | | |
| | Operating Temperature | 0°C~50°C | | |
| | Storage Temperature | -15°C -60°C | | |