

High frequency solar inverter

ES-VPM Series (1KW ~3KW)

ESENER

Power The World



Features

- Rated power: 1-3KW
- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built 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.

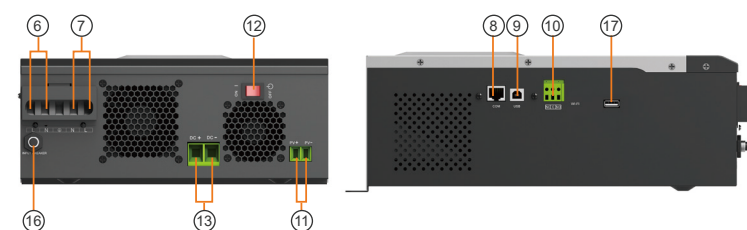
Back panel printing description



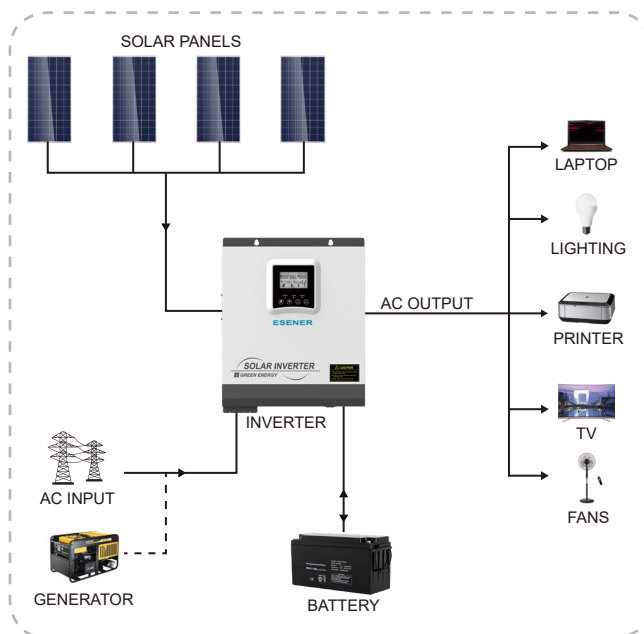
1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons

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



Solar system connection



ES-VPM Series (1KW ~3KW)

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		