

HIGH FREQUENCY SOLAR INVERTER ES-PRO Series

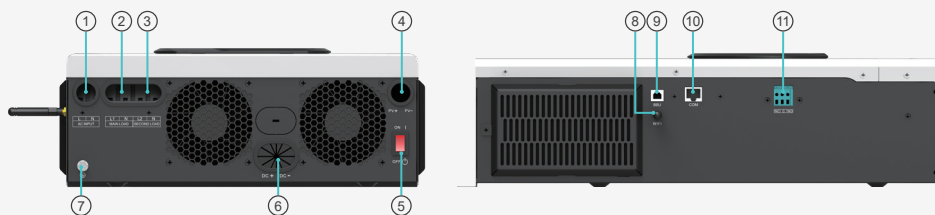
3.6KW | Dual output | WiFi | Bluetooth

ES-PRO Series is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support in portable size. ES-PRO Series can run without battery. The Maximum PV array open circuit voltage can reach 400V/450V. which Can help customers make full use of solar energy.



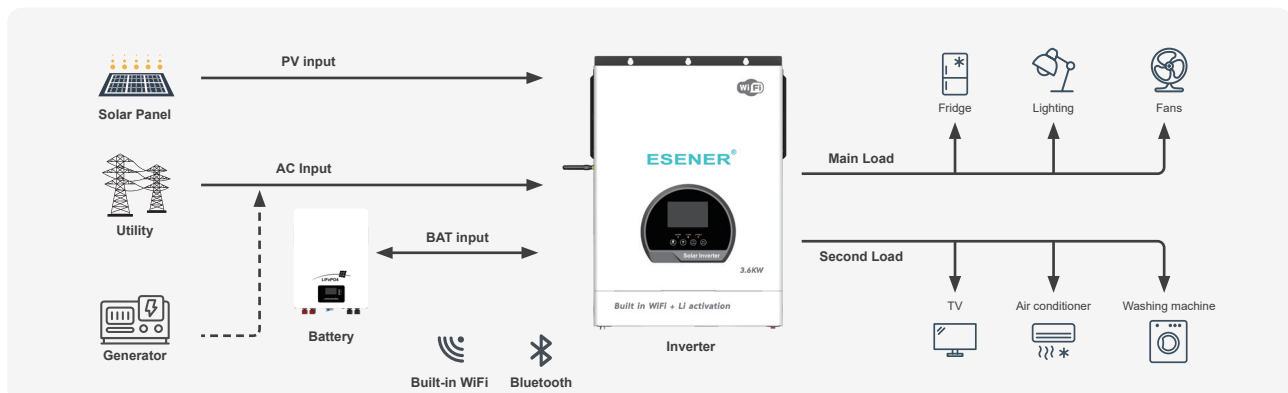
- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built-in MPPT solar charge controller
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB, RS485, CAN monitoring function
- WIFI remote monitoring (Built in wifi and bluetooth module and antenna)
- PV/ AC activation function
- BMS communication function (CAN Port)
- Dual output for smart load management

Back panel description



- | | |
|------------------|-----------------------------------|
| 1. AC Input | 7. Ground |
| 2. Main Load | 8. WiFi and Bluetooth antenna |
| 3. Second Load | 9. USB Port |
| 4. PV Input | 10. RS-485/CAN Communication port |
| 5. ON/OFF Switch | 11. Dry contact |
| 6. DC Input | |

Solar system connection



MODEL	ES-3.6kw/3.6kva Pro
Nominal Battery System Voltage	24VDC
INVERTER OUTPUT	
Rated Power (Main+Second Load)	3600VA/3600W
Battery Mode (Main+Second Load)	3000VA/3000W
Surge Power	6000W
Waveform	Pure sine wave
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)
Inverter Efficiency(Peak)	90~93%
Transfer Time	10ms (UPS / VDE4105) / 20ms (APL)
AC INPUT	
Voltage	230VAC±5%
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)
Frequency Range	50Hz / 60Hz(Auto sensing)
BATTERY	
Normal voltage	24VDC
Floating Charge Voltage	27.4VDC
Overcharge Protection	30VDC
SOLAR CHARGER & AC CHARGER	
Maximum PV Array Open Circuit Voltage	400VDC
Maximum PV Input Current	18A
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)
Maximum PV Array Power	4000W
PV Array MPPT Voltage Range(Typ.)	30~320VDC
Maximum Solar Charge Current	100A
Maximum AC Charge Current	60A
Maximum Charge Current	100A
MECHANICAL SPECIFICATIONS	
Machine Dimension (W*H*D)(mm)	318*454*122.5
Package Dimension (W*H*D)(mm)	544.5*410*200
N.W (kg)	7.8
G.W (kg)	9.3
OTHER	
Humidity	5% to 95% Relative humidity (Non-condensing)
Operating Temperature	-10°C~50°C
Storage Temperature	-15°C~60°C
Communication Interface	USB/WIFI/Bluetooth/RS-485/CAN
Warranty	1 year
Anti-dust Kit	yes
CERTIFICATION & STANDARDS	
CE-EMC+LVD (EN6100-6-3, EN6100-6-1+EN IEC62109-1, EN IEC62109-2)	