

# Hybrid Solar Inverter 3.6KW-5.6KW

## ISolar SMG Series 3.6~5.6KW 220V/230Vac Output

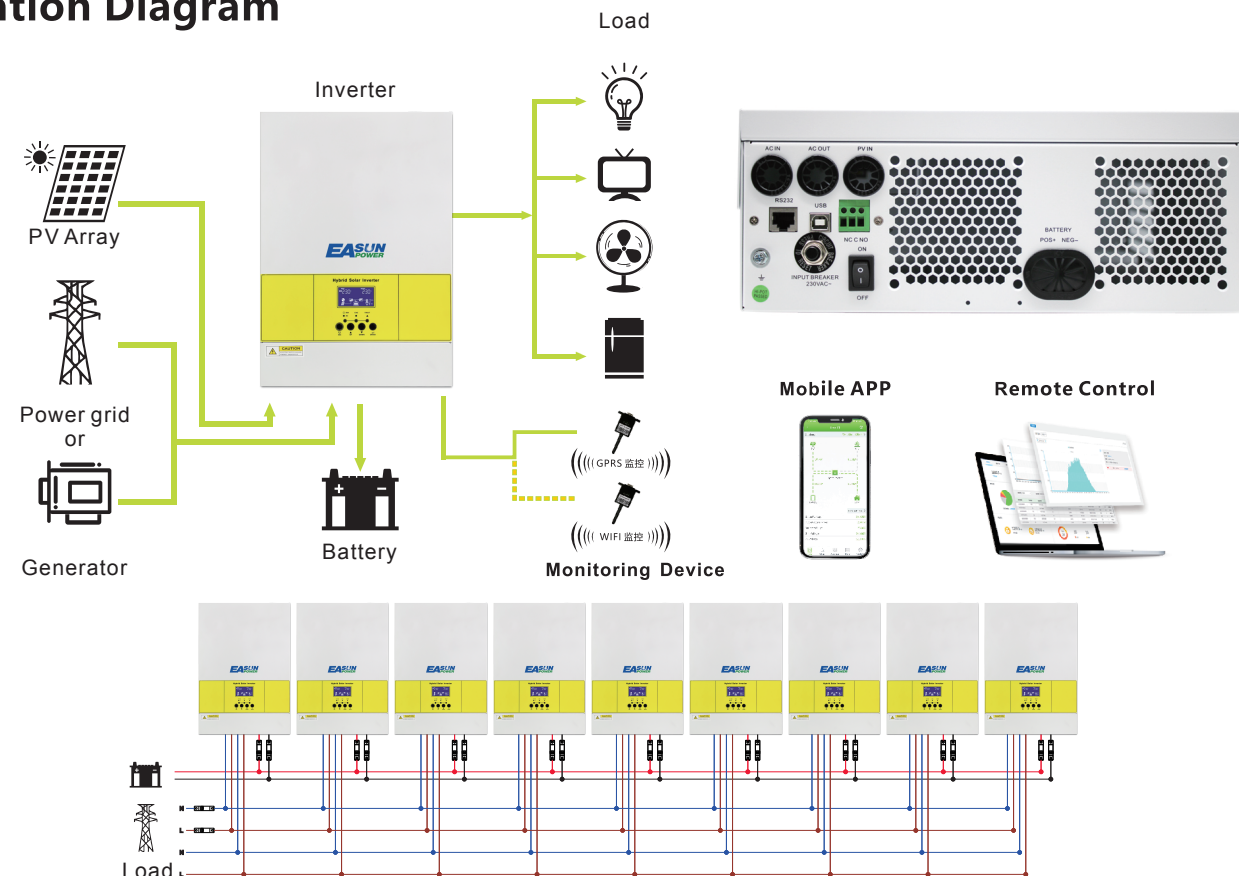
### Features



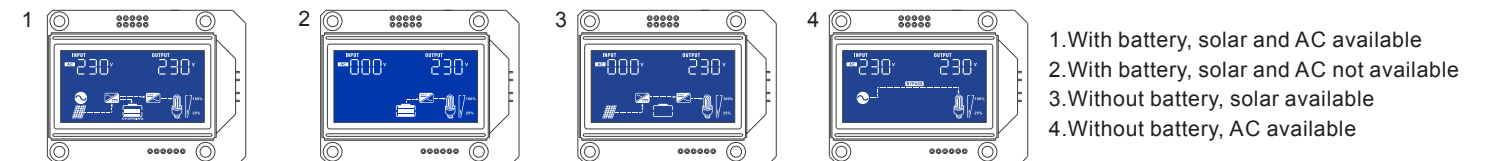
- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Built-in MPPT solar controller
- Battery equalization function to optimize battery performance and extend lifecycle
- Inverter running without battery
- Built-in anti-dusk kit for harsh environment
- Parallel operation with up to 12 units
- WiFi/GPRS remote monitoring(Optional)
- Detachable LCD(Optional)

This is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support in 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.

### Application Diagram



### System Diagram



### Technical Data

| MODEL                                 | ISolar SMG II 3.6KW  | ISolar SMG II 5.6KW | ISolar SMG II 5.6KP |
|---------------------------------------|--|---------------------|---------------------|
| CAPACITY                              | 3.6KVA,3.6KW   | 5.6KVA,5.6KW        | 5.6KVA,5.6KW        |
| Parallel Capability                   | NO   | NO                  | Yes,9pcs            |
| <b>INPUT</b>                          |  |                     |                     |
| Nominal Voltage                       | 230VAC   |                     |                     |
| Acceptable Voltage Range              | 170-280VAC (For personal Computer);90-280VAC (For Home Appliances) |                     |                     |
| Frequency                             | 50,60 Hz (Auto sensing)  |                     |                     |
| <b>OUTPUT</b>                         |  |                     |                     |
| Nominal Voltage                       | 220,230VAC ±5%   |                     |                     |
| Surge Power                           | 7000VA   | 11000VA             | 11000VA             |
| Frequency                             | 50,60 Hz   |                     |                     |
| Waveform                              | Pure Sine wave   |                     |                     |
| Transfer Time                         | 10ms(For personal Computer);20ms(For Home Appliances)              |                     |                     |
| Peak Efficiency (PV to INV)           | 96%  |                     |                     |
| Peak Efficiency (Battery to INV)      | 93%  |                     |                     |
| Overload Protection                   | 5s@ >=150% load; 10s@ 110%~150% load                               |                     |                     |
| Crest Factor                          | 3.1  |                     |                     |
| Admissible Power Factor               | 0.6~1 (inductive or capacitive)                                    |                     |                     |
| <b>BATTERY</b>                        |  |                     |                     |
| Battery Voltage                       | 24VDC  | 48VDC               | 48VDC               |
| Floating Charge Voltage               | 27VDC  | 54VDC               | 54VDC               |
| OverCharge Protection                 | 33VDC  | 63VDC               | 63VDC               |
| Charging Method                       | CC/CV  |                     |                     |
| <b>Solar Charger &amp; AC Charger</b> |  |                     |                     |
| Solar Charger TYPE                    | MPPT   |                     |                     |
| Max.PV Array Power                    | 4000W  | 5500W               | 5500 W              |
| Max. PV Array Open Circuit Voltage    | 500VDC   |                     |                     |
| PV Array MPPT Voltage Range           | 120VDC-450VDC  |                     |                     |
| Max. Solar Input Current              | 15A  | 18A                 | 18A                 |
| Max. Solar Charge Current             | 100A   | 100A                | 100A                |
| Max. AC Charge Current                | 60A  | 60A                 | 60A                 |
| Max. Charge Current                   | 100A   | 100A                | 100A                |
| <b>PHYSICAL</b>                       |  |                     |                     |
| Dimensions, D x W x H(mm)             | 482x290x113  |                     |                     |
| Package Dimensions, D x W x H(mm)     | 565x380x190  |                     |                     |
| Net Weight (Kgs)                      | 9  | 10                  | 10                  |
| Communication Interface               | USB,RS232,Dry-contact  |                     |                     |
| <b>ENVIRONMENT</b>                    |  |                     |                     |
| Operating Temperature Range           | -10°C to 50°C  |                     |                     |
| Storage temperature                   | -15°C~ 60°C  |                     |                     |
| Humidity                              | 5% to 95% Relative Humidity (Non-condensing)                       |                     |                     |

Product specifications are subject to change without further notice.