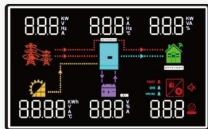
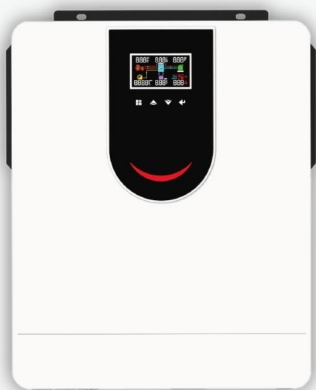


## ON/OFF GRID SOLAR INVERTER

SY6.2KW

SERIES

 INVERTER MODE  PV MODE  UTILITY MODE

## » Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Dual communication ports for Battery communication and Wifi communication
- Built-in 120A MPPT Solar charge:max 6200W (for 3.6KW/4.2KW),max 6500W (for 6.2KW)
- Built-in 80A MPPT Solar charge: max 6500W (for 3.6KW / 48V)
- High PV input voltage range(60~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output

## » Product Data Sheet

| MODEL                          | SY-3.6KW-48V | SY-4.2KW-24V | SY-6.2KW-48V |
|--------------------------------|--------------|--------------|--------------|
| Phase                          | 1-phase      |              |              |
| Maximum PV Input Power         | 6500W        | 6200W        | 6500W        |
| Rated Output Power             | 3600W/3600VA | 4200W/4200VA | 6200W/6200VA |
| Maximum Solar Charging Current | 80A          | 120A         |              |

## GRID-TIE OPERATION

|                                          |                |       |       |
|------------------------------------------|----------------|-------|-------|
| PV INPUT(DC)                             |                |       |       |
| Nominal DC Voltage/Maximum DC Voltage    | 360/500VDC     |       |       |
| Start-up Voltage/Initial Feeding Voltage | 60VDC/90VDC    |       |       |
| MPPT Voltage Range                       | 60~450VDC      |       |       |
| Maximum Input Current                    | 1/22A          | 1/18A | 1/22A |
| GRID OUTPUT(AC)                          |                |       |       |
| Nominal Output Voltage                   | 220/230/240VAC |       |       |
| Output Voltage Range                     | 195~253VAC     |       |       |
| Nominal Output Current                   | 15.7A          | 18.2A | 27.0A |
| Power Factor                             | >0.99          |       |       |
| EFFICIENCY                               |                |       |       |
| Maximum Conversion Efficiency(DC/AC)     | 98%            |       |       |
| TWO LOAD OUTPUT POWER                    |                |       |       |
| Full Load                                | 3600W          | 4200W | 6200W |
| Maxium Main Load                         | 3600W          | 4200W | 6200W |
| Maxium Second Load(battery mode)         | 1200W          | 1400W | 2067W |
| Maximum Load Cut Off Voltage             | 52VDC          | 26VDC | 52VDC |
| Maximum Load Return Voltage              | 54VDC          | 27VDC | 54VDC |

## OFF-GRID OPERATION

|                                          |                         |       |       |
|------------------------------------------|-------------------------|-------|-------|
| AC INPUT                                 |                         |       |       |
| AC Start-up Voltage/Auto Restart Voltage | 120-140VAC/180VAC       |       |       |
| Acceptable Input Voltage Range           | 90-280VAC or 170-280VAC |       |       |
| Frequency Range                          | 59~61±1HZ               |       |       |
| Maximum AC Input Current                 | 21.1A                   | 24.7A | 36.4A |
| PV INPUT (DC)                            |                         |       |       |
| Nominal DC Voltage/Maximum DC Voltage    | 360/500VDC              |       |       |
| MPPT Voltage Range                       | 60~450VDC               |       |       |
| Maximum Input Current                    | 1/22A                   | 1/18A | 1/22A |
| BATTERY MODE OUTPUT(AC)                  |                         |       |       |
| Nominal Output Voltage                   | 220/230/240VAC          |       |       |
| Output Waveform                          | Pure sine wave          |       |       |
| Efficiency (DC to AC)                    | 94%                     |       |       |
| BATTERY & CHARGER                        |                         |       |       |
| Nominal DC Voltage                       | 48VDC                   | 24VDC | 48VDC |
| Maximum Solar Charging Current           | 80A                     | 120A  | 120A  |
| Maximum AC Charging Current              | 60A                     | 100A  | 100A  |
| Maximum Solar+AC Charging Current        | 80A                     | 120A  | 120A  |

## HYBRID OPERATION

|                                          |                         |       |       |
|------------------------------------------|-------------------------|-------|-------|
| <b>PV INPUT(DC)</b>                      |                         |       |       |
| Nominal DC Voltage/Maximum DC Voltage    | 360/500VDC              |       |       |
| Start-up Voltage/Initial Feeding Voltage | 90VDC/120VDC            |       |       |
| MPPT Voltage Range                       | 60~450VDC               |       |       |
| Maximum Input Current                    | 1/22A                   | 1/18A | 1/22A |
| <b>GRID OUTPUT(AC)</b>                   |                         |       |       |
| Nominal Output Voltage                   | 220/230/240VAC          |       |       |
| Output Voltage Range                     | 195~253VAC              |       |       |
| Nominal Output Current                   | 15.7A                   | 18.2A | 27.0A |
| <b>AC INPUT</b>                          |                         |       |       |
| AC Start-up Voltage/Auto Restart Voltage | 120-140VAC/180VAC       |       |       |
| Acceptable Input Voltage Range           | 90-280VAC or 170-280VAC |       |       |
| Maximum AC Input Current                 | 21.1A                   | 24.7A | 36.4A |
| Maximum AC Charging Current              | 100A                    |       |       |
| <b>GENERAL</b>                           |                         |       |       |
| <b>PHYSICAL</b>                          |                         |       |       |
| Dimension,D*W*H(mm)                      | 420*350*110             |       |       |
| Cartoon Dimension,D*W*H(mm)              | 500*415*180             |       |       |
| Net Weight (kgs)                         | 8.0                     | 8.0   | 8.9   |
| Gross Weight (kgs)                       | 9.0                     | 9.0   | 10.0  |

## INTERACE

|                       |                                             |
|-----------------------|---------------------------------------------|
| Communication Port    | RS232/RS485/WIFI/GPRS/LITHIUM BATTERY       |
| <b>ENVIRONMENT</b>    |                                             |
| Humidity              | 5% to 95% Relative Humidity(Non-condensing) |
| Operating Temperature | -10°C~50°C                                  |
| <b>STANDARD</b>       |                                             |
| Compliance Safety     | CE                                          |