

# SISV-4.2K-H-(TWIN) SISV-6.2K-H-(TWIN)

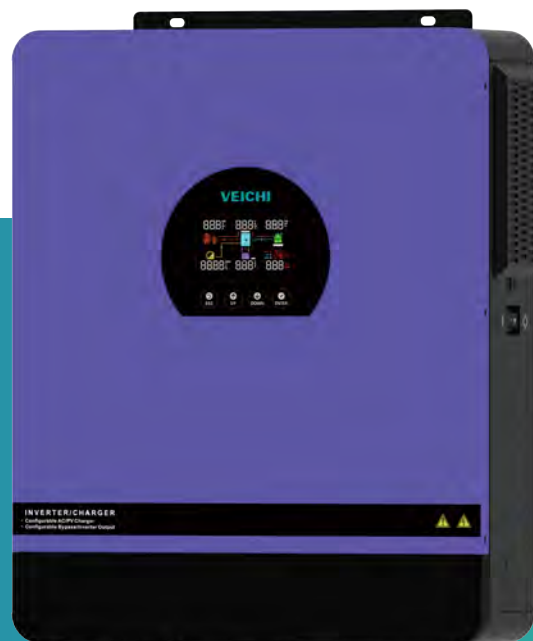
**(R)** INVERTER MODE **(G)** PV MODE **(B)** UTILITY MODE



## Features

- ◎ Pure sine wave solar inverter
- ◎ 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
- ◎ High PV input voltage range (60~500VDC)
- ◎ 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 anti-dust kit for harsh environment
- ◎ Smart battery charge design to optimize battery life
- ◎ Dual output

SISV-4.2K-H(TWIN)  
SISV-6.2K-H(TWIN)  
Off Grid Solar Inverter



## Technical Specifications

| Model                                    | SISV-4.2K-H-(TWIN)                          | SISV-6.2K-H-(TWIN) |
|------------------------------------------|---------------------------------------------|--------------------|
| Phase                                    | 1-phase                                     |                    |
| Maximum PV Input Power                   | 6200W                                       | 6500W              |
| Rated Output Power                       | 4200W/4200VA                                | 6200W/6200VA       |
| Maximum Solar Charging Current           | 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                    | 1/18A                                       | 1/22A              |
| Grid Output(AC)                          |                                             |                    |
| Nominal Output Voltage                   | 220/230/240VAC                              |                    |
| Output Voltage Range                     | 195~253VAC                                  |                    |
| Nominal Output Current                   | 18.2A                                       | 27.0A              |
| Power Factor                             | >0.99                                       |                    |
| Efficiency                               |                                             |                    |
| Maximum Conversion Efficiency(DC/AC)     | 98%                                         |                    |
| Two Load Output Power                    |                                             |                    |
| Full Load                                | 4200W                                       | 6200W              |
| Maximum Main Load                        | 4200W                                       | 6200W              |
| Maximum Second Load(battery Mode)        | 1400W                                       | 2067W              |
| Maximum Load Cut Off Voltage             | 26VDC                                       | 52VDC              |
| Maximum Load Return Voltage              | 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                 | 24.7A                                       | 36.4A              |
| PV Input(DC)                             |                                             |                    |
| Nominal DC Voltage/Maximum DC Voltage    | 360/500VDC                                  |                    |
| MPPT Voltage Range                       | 60~450VDC                                   |                    |
| Maximum Input Current                    | 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                       | 24VDC                                       | 48VDC              |
| Maximum Solar Charging Current           | 120A                                        |                    |
| Maximum AC Charging Current              | 100A                                        |                    |
| Maximum Solar+AC Charging Current        | 120A                                        |                    |
| Hybrid 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                    | 1/18A                                       | 1/22A              |
| Grid Output(AC)                          |                                             |                    |
| Nominal Output Voltage                   | 220/230/240VAC                              |                    |
| Output Voltage Range                     | 195~253VAC                                  |                    |
| Nominal Output Current                   | 18.2A                                       | 27.0A              |
| AC Input                                 |                                             |                    |
| AC Start-up Voltage/Auto Restart Voltage | 120-140VAC/180VAC                           |                    |
| Acceptable Input Voltage Range           | 90-280VAC or 170-280VAC                     |                    |
| Maximum AC Input Current                 | 24.7A                                       | 36.4A              |
| Maximum AC Charging Current              | 100A                                        |                    |
| General                                  |                                             |                    |
| Physical                                 |                                             |                    |
| Dimension D*W*H(mm)                      | 420*350*110                                 |                    |
| Cartoon Dimension D*W*H(mm)              | 500*415*180                                 |                    |
| Net Weight(kgs)                          | 8.0                                         | 8.9                |
| Gross Weight(kgs)                        | 9.0                                         | 10.0               |
| Interface                                |                                             |                    |
| Communication Port                       | RS232/RS485/WIFI/GPRS/LITHIUM BATTERY       |                    |
| Environment                              |                                             |                    |
| Humidity                                 | 5% to 95% Relative Humidity(Non-condensing) |                    |
| Operating Temperature                    | -10℃~50℃                                    |                    |
| Standard                                 |                                             |                    |
| Compliance Safety                        | CE                                          |                    |

# SISV-8.2K-H-(TWIN) SISV-10.2K-H-(TWIN)

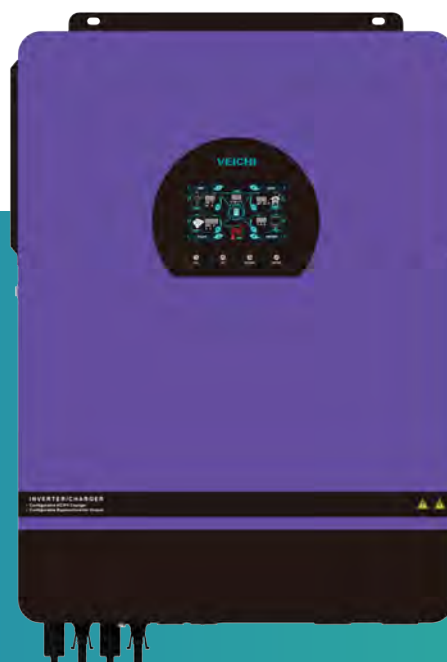
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## Features

- ◎ Pure sine wave solar inverter
- ◎ 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 160A MPPT solar charge: max 6200W (for 3.6kW/4.2kW), max 6500W (for 6.2kW)
- ◎ High PV input voltage range (90~500VDC)
- ◎ Built-in anti-dust kit for harsh environment
- ◎ Smart battery charge design to optimize battery life
- ◎ Dual output
- ◎ Dual PV input
- ◎ Touch button
- ◎ On off grid work mode

**SISV-8.2K-H-(TWIN)**  
**SISV-10.2K-H-(TWIN)**  
**Off Grid Solar Inverter**



## Technical Specifications

| Model                                    | SISV-8.2K-H-(TWIN)                          |  | SISV-10.2K-H-(TWIN)     |                |
|------------------------------------------|---------------------------------------------|--|-------------------------|----------------|
| Phase                                    |                                             |  | 1-phase                 |                |
| Maximum PV Input Power                   |                                             |  | 5400W+5400W             |                |
| Rated Output Power                       | 8200W/8200VA                                |  |                         | 10200W/10200VA |
| Maximum Solar Charging Current           |                                             |  | 160A                    |                |
| 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                    |                                             |  | 2/18A                   |                |
| Grid Output(AC)                          |                                             |  |                         |                |
| Nominal Output Voltage                   |                                             |  | 220/230/240VAC          |                |
| Output Voltage Range                     |                                             |  | 195~253VAC              |                |
| Nominal Output Current                   | 35.6A                                       |  |                         | 44.3A          |
| Power Factor                             |                                             |  | >0.99                   |                |
| Efficiency                               |                                             |  |                         |                |
| Maximum Conversion Efficiency(DC/AC)     |                                             |  | 98%                     |                |
| Two Load Output Power                    |                                             |  |                         |                |
| Full Load                                | 8200W                                       |  |                         | 10200W         |
| Maxium Main Load                         | 8200W                                       |  |                         | 10200W         |
| Maxium Second Load(battery Mode)         | 2733W                                       |  |                         | 3400W          |
| Maximum Load Cut Off Voltage             |                                             |  | 52VDC                   |                |
| Maximum Load Return Voltage              |                                             |  | 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                 | 48.2A                                       |  |                         | 60A            |
| PV Input(DC)                             |                                             |  |                         |                |
| Nominal DC Voltage/Maximum DC Voltage    |                                             |  | 360/500VDC              |                |
| MPPT Voltage Range                       |                                             |  | 60~450VDC               |                |
| Maximum Input Current                    |                                             |  | 2/18A                   |                |
| Battery Mode Output(AC)                  |                                             |  |                         |                |
| Nominal Output Voltage                   |                                             |  | 220/230/240VAC          |                |
| Output Waveform                          |                                             |  | Pure sine wave          |                |
| Efficiecnycy(DC to AC)                   |                                             |  | 94%                     |                |
| Battery & Charger                        |                                             |  |                         |                |
| Nominal DC Voltage                       |                                             |  | 48VDC                   |                |
| Maximum Solar Charging Current           |                                             |  | 160A                    |                |
| Maximum AC Charging Current              |                                             |  | 140A                    |                |
| Maximum Solar+AC Charging Current        |                                             |  | 160A                    |                |
| Hybrid 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                    |                                             |  | 2/18A                   |                |
| Grid Output(AC)                          |                                             |  |                         |                |
| Nominal Output Voltage                   |                                             |  | 220/230/240VAC          |                |
| Output Voltage Range                     |                                             |  | 195~253VAC              |                |
| Nominal Output Current                   | 35.6A                                       |  |                         | 44.3A          |
| AC Input                                 |                                             |  |                         |                |
| AC Start-up Voltage/Auto Restart Voltage |                                             |  | 120-140VAC/180VAC       |                |
| Acceptable Input Voltage Range           |                                             |  | 90-280VAC or 170-280VAC |                |
| Maximum AC Input Current                 | 48.2A                                       |  |                         | 60A            |
| Maximum AC Charging Current              |                                             |  | 140A                    |                |
| General                                  |                                             |  |                         |                |
| Physical                                 |                                             |  |                         |                |
| Dimension D*W*H(mm)                      |                                             |  | 530*390*130             |                |
| Cartoon Dimension D*W*H(mm)              |                                             |  | 618*463*205             |                |
| Net Weight(kgs)                          | 14.2                                        |  |                         | 14.7           |
| Gross Weight(kgs)                        | 15.7                                        |  |                         | 16.2           |
| Interace                                 |                                             |  |                         |                |
| Communication Port                       | RS232/RS485/WIFI/GPRS/LITHIUM BATTERY       |  |                         |                |
| Environment                              |                                             |  |                         |                |
| Humidity                                 | 5% to 95% Relative Humidity(Non-condensing) |  |                         |                |
| Operating Temperature                    | -10°C~50°C                                  |  |                         |                |
| Standard                                 |                                             |  |                         |                |
| Compliance Safety                        | CE                                          |  |                         |                |