

# INSOLA



## Solar storage off-grid inverter

### HSI 3500



#### User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use



#### Intelligent

- Exclusive Li-ion battery BMS dual activation
- Support for remote monitoring of operating



#### Reliable

- Outputs high-quality pure sine wave AC power
- Reliable output for long periods at rated power



#### Efficiency

- Advanced MPPT with up to %99.9 efficiency
- Multiple charge and discharge modes are available



#### All-in-one

- Support for many types of batteries
- Supports Li-ion battery BMS communication



#### Safety

- 360 degrees of security from hardware to software
- Multiple safety approvals available

| MODEL                                | HSI 3500                                 | CAN BE SET |
|--------------------------------------|------------------------------------------|------------|
| <b>INVERTER</b>                      |                                          |            |
| Rated Output Power                   | 3,500W                                   |            |
| Max. Peak Power                      | 6,000VA                                  |            |
| Rated Output Voltage                 | 230Vac (L/N/PE single phase)             | ✓✓         |
| Load Capacity of Motors              | 2HP                                      |            |
| Rated AC Frequency                   | 50Hz/60Hz                                | ✓✓         |
| Waveform                             | Pure Sine Wave                           |            |
| Switching Time                       | 10ms (typical)                           |            |
| <b>BATTERY</b>                       |                                          |            |
| Battery Type                         | Lead-acid / Li-ion / User defined        | ✓✓         |
| Rated Battery Voltage                | 24V                                      |            |
| Voltage Range                        | 20~33Vdc                                 | ✓✓         |
| Max.MPPT Charging Current            | 80A                                      | ✓✓         |
| Max.Mains/Generator Charging Current | 80A                                      | ✓✓         |
| Max.Hybrid Charging Current          | 60A                                      | ✓✓         |
| Recommended Battery Capacity         | 5kWh                                     |            |
| <b>PV INPUT</b>                      |                                          |            |
| Num. of MPPT Trackers                | 1                                        |            |
| Max.PV Array Power                   | 4,000W                                   |            |
| Max. Input Current                   | 13A                                      |            |
| Max.Voltage of Open Circuit          | 500Vdc                                   |            |
| MPPT Voltage Range                   | 120-450Vdc                               |            |
| <b>UTILITY / GENERATOR INPUT</b>     |                                          |            |
| Input Voltage Range                  | UPS mode170: 280Vac; APL mode: 90~280Vac | ✓✓         |
| Frequency Range                      | 50/60Hz                                  |            |
| Bypass Overload Current              | 30A                                      |            |
| <b>EFFICIENCY</b>                    |                                          |            |
| MPPT Tracking Efficiency             | 99.9%                                    |            |
| Max. Battery Inverter Efficiency     | 92%                                      |            |
| <b>GENERAL</b>                       |                                          |            |
| Dimensions                           | 378*280*103mm (1.24*0.92*0.34ft)         |            |
| Weight                               | 7.4kg (16.31lb)                          |            |
| Protection Degree                    | IP20, Indor Only                         |            |
| Operating Temperature Range          | -10°C~55°C                               |            |
| Noise                                | ≤60dB                                    |            |
| Cooling Method                       | Internal Fan                             |            |
| Warranty                             | 1.5 Years                                |            |
| <b>COMMUNICATION</b>                 |                                          |            |
| Embedded Interfaces                  | RS485 / CAN / USB / Dry contact          | ✓✓         |
| External Modules (Optional)          | Wi-Fi / GPRS                             | ✓✓         |
| <b>CERTIFICATION</b>                 |                                          |            |
| Safety                               | CE(IEC 62109-1)/FCC/SAA                  |            |
| EMC                                  | EN61000, C2                              |            |

## Application



House



Countryside



Farm



Telecom



Pasture



Island