



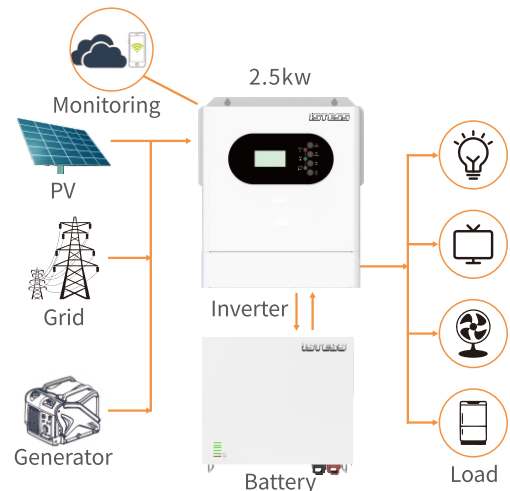
RESIDENTIAL ENERGY STORAGE SYSTEM

OFF GRID HYBRID INVERTER+LiFePO4 BATTERY

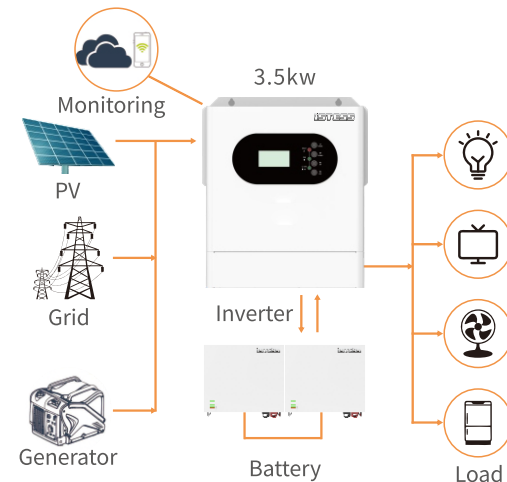
| | | | |
|----------------|----------------|-----------------------------------|----------------------------|
| RS232/RS485 | Built-60A MPPT | High Efficiency | WIFI |
| Pure sine wave | PF=1.0 | BMS Lithium Battery Activation | Anti-shock design terminal |

Product Features

- ✓ Pure sine wave
- ✓ Power factor 1.0
- ✓ Built-in MPPT 60A
- ✓ PV input Voltage 30Vdc~160Vdc
- ✓ Detachable dust cover for harsh environment
- ✓ WiFi remote monitoring optional
- ✓ Support multiple output priority: UTL, SOL, SBU



2.5kw Inverter +2.56kWh 24V Battery System
(Limit the inverter power as 2.5kw)



3.5kw Inverter+5.12kWh 24V Battery
(2 parallel 2.56kWh modules) System

Technical Data

| Inverter Data | |
|---------------------------------------|--|
| MODEL | 3500HF-24 |
| CAPACITY | 3.5KVA/3.5KW |
| Parallel Capability | NO |
| INPUT | |
| Nominal Voltage | 230VAC |
| Acceptable Voltage Range | 170-280VAC(For personal Computer);90-280vac(For Home Appliances) |
| Frequency | 50/60 Hz(Auto sensing) |
| OUTPUT | |
| Nominal Voltage | 220/230VAC+5% |
| Surge Power | 7000VA |
| Frequency | 50/60Hz |
| 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@>=140% load; 10s@100%~140% load |
| Crest Factor | 3:1 |
| Admissible Power FACTOR | 0.6-1 (inductive or capacitive) |
| BATTERY | |
| Battery Voltage | 24VDC |
| Floating Charge Voltage | 27.0VDC |
| OverCharge Protection | 28.2VDC |
| Charging Method | CC/CV |
| Lithium Battery Activation | YES |
| Lithium Battery Communication | YES(RS485) |
| SOLAR CHARGER & AC CHARGER | |
| Solar Charger TYPE | MPPT |
| Max. PV Array Power | 1500W |
| Max. PV Array Open Circuit Voltage | 160VDC |
| PV Array MPPT Voltage Range | 30VDC~160VDC |
| Max. Solar Input Current | 50A |
| Max. Solar Charge Current | 60A |
| Max. AC Charge Current | 80A |
| Max. Charge Current(PV+AC) | 120A |

| PHYSICAL | |
|-----------------------------------|---|
| Dimensions,D x W x H(mm) | 358x295x100 |
| Package Dimensions, D x W x H(mm) | 465x380x175 |
| Net Weight(Kg) | 7 |
| Communication Interface | RS232/RS485 |
| ENVIRONMENT | |
| Operating Temperature Range | (-10°C to 50°C) |
| Storage temperature | (-15°C ~50°C) |
| Humidity | 5% to 95% Relative Humidity (Non-condensing) |

| Battery Data | |
|---|--------------------------------------|
| Model No | ENP25100 |
| Normal Voltage | 25.6V |
| Normal Capacity | 2.56kWh |
| Useable Capacity | 2.5KWh |
| Operating Voltage | 21.2V~28.4V |
| Recommended Power Charge/ Dischaeg current | 50A (0.5C) |
| Max. Power Charge/ Dischaeg current | 100A max (1C) |
| Peak Output current ⁽¹⁾ | 110A (3S) |
| Rated Discharging Power | 2.6kW |
| Max discharging Power | 3KW (@SOC20%) |
| Round-trip Efficiency | ≥96% |
| Battery Cell Technology | Lithium Iron Phosphate (cobalt-free) |
| General Data | |
| Dimension (W/D/H) | 450x380x89 mm |
| Weight | 20Kg |
| IP Protection | IP21 |
| Environment | Indoor |
| Working Temperature Discharge | -20°C ~ +55°C |
| Working Temperature Charge | 0°C ~ +55°C |
| Storage Temperature | -20°C ~ +50°C |
| Installation | Wall mount , Rack, Floor Stand |
| Features | |
| Cycle Life ⁽²⁾ | > 6000 Cycles |
| Scalability | Max 16Packs (6+N Communication) |
| Communication ports | CAN / Rs485 |
| Warranty | 5~10 Years (optional) |
| IEC62619, CE, UN38.3, UL1973, IEC61000 | |