



Energy Storage Battery

European Version

All-in-one computer 380V



High Precision

- High-precision MPPT control, maximize the use of solar energy and increase photovoltaic power generation.
- High-precision electricity meter, anti-backflow/load power consumption monitoring.
- Matching bidirectional inverter.



Multiple Modes

- Support on-grid and off-grid uninterrupted switching.
- With energy management function, unmanned and EMS-free operation.
- A variety of working modes to meet the diverse needs of customers.



Various Configurations

- **LiFeP04** battery, Flexible configuration, optional photovoltaic/ mains charging mode.
- Support Wi-Fi, GPRS wireless monitoring method



Long Life

- Ip65 protection grade.
- Lifetime design up to 25 years.

Optical storage integrated machine product, supports four interfaces of photovoltaic, battery, grid-connected, and load, integrates on-grid switching function, supports uninterrupted switching between off-grid and grid-connected modes, full power output in off-grid state, and supports 100% Balanced load access, can be matched with inductive responsibility such as air conditioners, and has good load adaptability; Matching bidirectional inverter. LiFeP04 battery.

Application scenarios



Family



Small store



Hospital

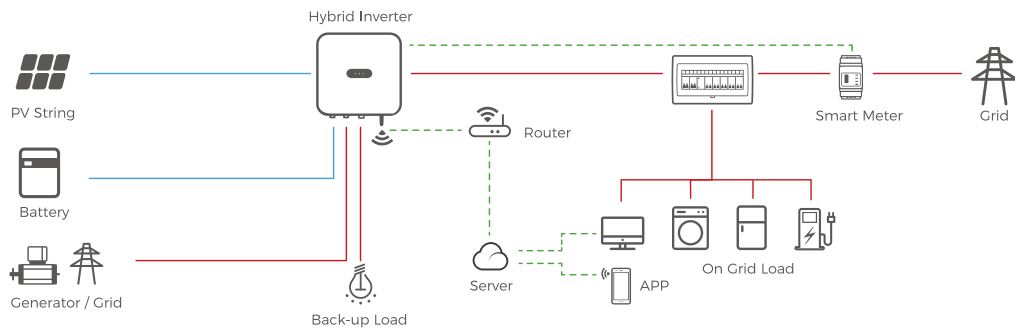


School

Technical Specifications-All-in-one computer (European Version)

| Model | YL-ESB-EY10A15 | YL-ESB-EY10A20 | YL-ESB-EY10A25 | YL-ESB-EY10A30 | YL-ESB-EY10A35 |
|---|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| PV INPUT (DC) | | | | | |
| Maximum PV Input Power | 14000W | | | | |
| Nominal DC Voltage/ Maximum DC Voltage | 1000V | | | | |
| Start-Up Voltage | 720V | | | | |
| Number of MPP Trackers Maximum Input Current | 12.5/12.5 | | | | |
| MPP Voltage Range | 200~880 | | | | |
| Number of MPP Trackers | 2 | | | | |
| AC Side Input / output | | | | | |
| Rate AC Output Power | 10000VA | | | | |
| Rated grid voltage (V) | 400/230 ; 380/220 | | | | |
| AC Output Frenquecny | 50/60Hz | | | | |
| Rated AC current (A) | 14.5A | | | | |
| Maximum output current (A) | 16.7A | | | | |
| PF | 0.8 cap~0.8ind | | | | |
| Output THDI | <3% | | | | |
| Load output (connected to battery) | | | | | |
| Rated Power (w) | 10000W | | | | |
| Rated Grid Voltage (v) | 400V/380V | | | | |
| Grid Type | 3/N/PE | | | | |
| Rated Frenquecny | 50/60Hz | | | | |
| Rated AC Current (A) | 14.5A | | | | |
| Maximum AC Current (A) | 16A | | | | |
| Total Harmonic Distortion | <3% | | | | |
| Reak Power (w) Continuous @Ta=25°C | 11KW (30min); 13KW (5min); 15KW (5min) | | | | |
| Efficiency | | | | | |
| MPPT Efficiency (%) | 99.99 | | | | |
| CE Efficiency (%) | 97 | | | | |
| Maximum Efficiency (%) | 97.8 | | | | |
| Battery charge / discharge efficiency | 97.6/96 | | | | |
| Standby power consumption (w) | <25 | | | | |
| General performance parameters | | | | | |
| Dimensions (W*H*D) | 548*550*188mm | | | | |
| Weight (kg) | 36 | | | | |
| Cooling method | Free cooling | | | | |
| Communication Method | WIFI / GPRS / OPTICAL / RS485 | | | | |
| Battery param eters | | | | | |
| Nominal DC Voltage | 153.6 | 204.8 | 256 | 307.2 | 358.4 |
| Battery Capacity | 100Ah | 100Ah | 100Ah | 100Ah | 100Ah |
| Energy (kWH) | 15.360kWH | 20.480kWH | 25.600kWH | 30.720kWH | 35.840kWH |
| Dimensions (H*W*D) | 1000*830*560mm 39.37*32.68*22.05" | 1170*830*560mm 46.06*32.68*22.05" | 1340*830*560mm 52.76*32.68*22.05" | 1510*830*560mm 59.45*32.68*22.05" | 1680*830*560mm 66.14*32.68*22.05" |
| Net Weight (kg) | 245 | 300 | 355 | 410 | 456 |
| Maximum Discharging Current | 100A | | | | |
| Cycle Life | 4000Cycles (80% DOD) | | | | |

Schematic Diagram of Solution



Trouble Shooting Steps

Problem determination based on: Whether the battery can be turned on. If battery is turned on, check the red light is off, flashing or lighting; If the red light is off, check whether the battery can be charged/discharged.

Preliminary determination steps: Battery cannot be turned on, switch on the lights are all no lighting or flashing. If the battery external switch is ON, the RUN light is flashing, and the external power supply voltage is 153.6V or more, the battery still unable to turn on, please contact distributor.

- The battery can be turned on, but red light is lighting, and cannot be charged or discharged, red light is lighting, that means system is abnormal, please check values as following.
- Temperature: Above 50°C or under -10°C, the battery could not work. Solution: to move battery to the normal operating temperature range between -10°C and 50°C. Current: If current is larger than 100A, battery protection will turn on. Solution: Check whether current is too large or not, if it is, to change the settings on power supply side.
- High Voltage: If charging voltage above 175.2V/battery protection will turn on. Solution: Check whether voltage is too high or not, if it is, to change the settings on power supply side. Low Voltage: When the battery discharges to 120V or less, battery protection will turn on. Solution: Charge the battery for some time, the red light will turn off. Excluding the four points above, if the faulty is still cannot be located, turn off battery and repair.
- The battery cannot be charged or discharged. Cannot be charged: Disconnect the power cables, measure voltage on power side. If the voltage is 153.6-175.2V, reconnect the battery, connect the power cable and try again, if still not work, turn off battery and contact distributor. Unable to discharge: Disconnect the power cables and measure voltage on battery side. If it is under 120V, please charge the battery; if voltage is above 175.2V and still cannot discharge, turn off battery and contact distributor. Emergency Situations.

Matters Need Attention

- Do not immerse the battery in water or allow it to get wet.
- Do not use or store the battery near sources of heat such as a fire or heater.
- Do not reverse the positive(+) and negative(-) terminals.
- Do not connect the battery directly to wall outlets or car cigarette-lighter sockets.
- Do not put the battery into a fire or apply direct heat to it.
- Do not short-circuit the battery by connecting wires or other metal objects to the positive(+) and negative(-) terminals.
- Do not pierce the battery casing with a nail or other sharp object, break it open with a hammer, or step on it.
- Do not strike, throw or subject the battery to severe physical shock.
- Do not directly solder the battery terminals.
- Do not attempt to disassemble or modify the battery in any way.
- Do not place the battery in a microwave oven or pressurized container.
- Do not use the battery in combination with primary batteries (such as dry-cell batteries) or batteries of different capacity, type or brand.
- Do not use the battery if it gives off an odor, generates heat, becomes discolored or deformed, or appears abnormal in any way. If the battery is in use or being recharged, remove it from the device or charger immediately and discontinue use.
- If the battery leaks and electrolyte gets in your eyes, do not rub them. Instead, rinse them with clean running water and immediately seek medical attention. If left as is, electrolyte can cause eye injury.

