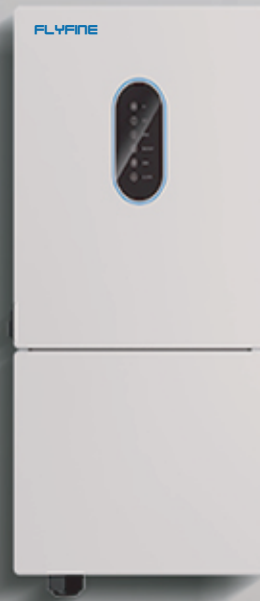


FLYFINE



# Single Phase Hybrid Inverter



## Maximize PV Input Power

- Up to 200% oversizing allowed with 3 MPPTs
- Support high power module with 30A PV input current
- Support AC coupled solar input



## Flexible Battery Configuration

- Support 40-64V Lithium or Lead-acid battery
- Maximum battery charge/discharge current of 210A



## Versatile Applications

- Stackable up to 9 units
- Standby generator connection for whole-home back up
- Four application modes
- Remote configuration and upgrade



## Stable Output Power

- Continuous 110% of nominal AC power
- Seamless backup transition (<4ms)

| Model                               | FH8000S        |  | FH10000S   |  |
|-------------------------------------|----------------|--|--|--|
| <b>Efficiency</b>                   |                |  |  |  |
| Max. Efficiency (PV to AC)          |                |  | 98.0%  |  |
| Max. Efficiency (BAT to AC)         |                |  | 94.5%  |  |
| <b>PV Input Data</b>                |                |  |  |  |
| Max. PV Configuration               |                |  | 200%   |  |
| Max. PV Input Power                 | 12,000W        |  | 15,000W  |  |
| Max. PV Voltage                     |                |  | 600V   |  |
| Start-up Voltage                    |                |  | 90V  |  |
| MPPT Operating Voltage Range        |                |  | 70V-540V   |  |
| Max. Input Current per MPPT         |                |  | 30A/22A/22A  |  |
| Max. Short Circuit Current per MPPT |                |  | 40A/30A/30A  |  |
| String per MPPT                     |                |  | 6(2/2/2)   |  |
| Nos. of MPPT                        |                |  | 3  |  |
| <b>Input/Output (BAT)</b>           |                |  |  |  |
| Battery Type                        |                |  | Lithium-ion/Lead-acid  |  |
| Nominal Battery Voltage             |                |  | 48V  |  |
| Battery Voltage Range               |                |  | 40V-64V  |  |
| Max. Charge/Discharge Current       | 210A/180A      |  | 210A/210A  |  |
| Max. Charge/Discharge Power         | 10,000W/8,000W |  | 10,000W/10,000W  |  |
| <b>Output (Grid)</b>                |                |  |  |  |
| Nominal AC Output Power             | 8,000W         |  | 10,000W  |  |
| Max. AC Output Apparent Power       | 8,800VA        |  | 11,000VA   |  |
| Max. AC Output Power (PF=1)         | 8,800W         |  | 11,000W  |  |
| Max. AC Output Current              | 40A            |  | 50A  |  |
| Nominal Grid Voltage                |                |  | Single Phase 220V/230/240V, L+N+PE   |  |
| Grid Voltage Range                  |                |  | 150V-300V (Adjustable)   |  |
| Nominal Grid Frequency              |                |  | 50Hz/60Hz  |  |
| Grid Frequency Range                |                |  | 45Hz-55Hz/55Hz-65Hz (Adjustable)   |  |
| Power Factor                        |                |  | > 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)                           |  |
| THDI                                |                |  | <3% (Rated Power)  |  |
| <b>Output (Back up)</b>             |                |  |  |  |
| Nominal Output Power                | 8,000W         |  | 10,000W  |  |
| Nominal Output Current              | 34.8A          |  | 43.5A  |  |
| Peak Output Apparent Power (1s)     | 16,000VA       |  | 20,000VA   |  |
| Nominal Output Voltage              |                |  | Single Phase 220V/230/240V, L+N+PE   |  |
| Nominal Output Frequency            |                |  | 50Hz/60Hz  |  |
| Transfer Time                       |                |  | <4ms   |  |
| THDV                                |                |  | <3% @100% R Load   |  |
| <b>Protection</b>                   |                |  |  |  |
| Protection Category                 |                |  | Class I  |  |
| DC Switch                           |                |  | Yes  |  |
| Anti-islanding Protection           |                |  | Yes  |  |
| AC Overcurrent Protection           |                |  | Yes  |  |
| DC/AC Overvoltage Protection        |                |  | DC Type II, AC Type III  |  |
| AC Short Circuit Protection         |                |  | Yes  |  |
| DC Reverse Protection               |                |  | Yes  |  |
| Surge Arrester                      |                |  | DC Type II, AC Type II   |  |
| Insulation Resistance Detection     |                |  | Yes  |  |
| Leakage Current Protection          |                |  | Yes  |  |
| AFCI                                |                |  | Optional   |  |
| Generator                           |                |  | Yes  |  |
| <b>General</b>                      |                |  |  |  |
| Max. Operation Altitude             |                |  | 4000m (>2000m derating)  |  |
| Ingress Protection Degree           |                |  | IP65   |  |
| Operating Temperature Range         |                |  | -25°C-60°C (>45°C derating)  |  |
| Relative Humidity                   |                |  | 0-100%   |  |
| Cooling                             |                |  | Fan Cooling  |  |
| Mounting                            |                |  | Wall bracket   |  |
| Dimensions (W*H*D)                  |                |  | 420mm*800mm*240mm  |  |
| Weight                              |                |  | 39Kg   |  |
| PV Connection Way                   |                |  | Terminals  |  |
| <b>HMI &amp; COM</b>                |                |  |  |  |
| Display                             |                |  | Bluetooth & APP + LED , LCD (optional)                                     |  |
| Communication Interface             |                |  | RS485/CAN (for BMS), DRM/RS485 (for Meter), RS485 Optional: Wi-Fi/GPRS/LAN |  |
| <b>Certification</b>                |                |  |  |  |
| Safety                              |                |  | IEC 62109-1&2  |  |
| Grid                                |                |  | IEC 61727/62116, AS 4777.2, NRS 097-2-1                                    |  |
| Warranty                            |                |  | 5 Years  |  |

Note: The technical data above mentioned may be updated or revised due to product development. The data in this brochure is subject to change without notice.