

# FLYFINE



## Three Phase Hybrid All In One ESS

### ► Ready To Use

Integrated battery, inverter and all accessories, easily installed and ready to use with cables connected

### ► Modular Design

Modular battery packs, connected in parallel to increase battery capacity

### ► On/off Grid

Certified for grid CE

### ► Ultra Large PV Access

Configure two MPPT interfaces to support up to 15kw of PV



### ► Supports VPP Applications

Integrated high-voltage battery and inverter for three-phase circuits

### ► IP65 Waterproof

IP65 rated high strength waterproof, supporting outdoor installation

### ► Ultra-Slim Design

Ultra-slim design style, space-saving

### ► AFCI Active Arcing Protection

Automatically recognizes arc fault signals in circuits and disconnects power circuits before they short out

| Model                                | FHAB8640  |  | FHAB17280   |  |
|--------------------------------------|---|--|---|--|
| <b>PV Specifications</b>             |   |  |   |  |
| Max. PV Input Power                  |   |  | 15000W  |  |
| Nominal DC Voltage/ Vdc              |   |  | 600Vdc  |  |
| Start-Up/ Min. Operation Voltage     |   |  | 180Vdc  |  |
| MPPT Voltage Range                   |   |  | 150-950Vdc  |  |
| No. Of MPPTs/ Strings                |   |  | 2(1/2)  |  |
| Max. PV Input/ Short Circuit Current |   |  | 48A (16A/32A)   |  |
| <b>Grid Output(AC)</b>               |   |  |   |  |
| Max. AC Input Power From Grid        |   |  | 20500VA   |  |
| Rated AC Output Power                |   |  | 10000W  |  |
| Max. AC Output Apparent Power        |   |  | 11000VA   |  |
| Rated/ Max. AC Output Current        |   |  | 15.2A/16.7A   |  |
| Rated AC Voltage                     |   |  | 3/N/PE 220V/380V 230V/400V 240V/415V  |  |
| AC Voltage Range                     |   |  | 270-480V  |  |
| Rated Grid Frequency                 |   |  | 50Hz/60Hz   |  |
| Grid Frequency Range                 |   |  | 45-55Hz/55-65Hz   |  |
| Harmonic (THD) (Of Rated Power)      |   |  | <3%   |  |
| Power Factor At Rated Power          |   |  | >0.99   |  |
| Adjustable Power Factor              |   |  | 0.8 leading to 0.8 lagging  |  |
| AC Type                              |   |  | Three phase   |  |
| <b>Battery Data</b>                  |   |  |   |  |
| Rate Voltage(V)                      | 192   |  | 384   |  |
| Cell Combination                     | 60S1P   |  | 60S1P*2   |  |
| Rate Capacity(AH)                    |   |  | 50  |  |
| Energy Storage(kWh)                  | 9.6   |  | 19.2  |  |
| Cycle Life                           |   |  | 25±2°C, 0.5C/0.5C, EOL70%≥6500  |  |
| Charge Voltage(V)                    | 219   |  | 438   |  |
| Max. Charge/Discharge Current(A)     |   |  | 25  |  |
| Discharge Cut-Off Voltage(V)         | 168   |  | 336   |  |
| Charge Cut-Off Voltage(V)            | 210   |  | 420   |  |
| <b>Enviornment</b>                   |   |  |   |  |
| Charge Temperature                   |   |  | 0°C to 50°C@60±25% Relative Humidity  |  |
| Discharge Temperature                |   |  | -20°C to 50°C@60±25% Relative Humidity  |  |
| Storage Temperature                  |   |  | -20°C to 50°C@60±25% Relative Humidity  |  |
| <b>Mechanical</b>                    |   |  |   |  |
| IP Class                             |   |  | IP65  |  |
| Material System                      |   |  | LiFePO4   |  |
| Case Material                        |   |  | Metal   |  |
| Case Type                            |   |  | All in One Stack  |  |
| Dimension L*W*H(mm)                  |   |  | Inverter high-voltage box: 800*210*775 / Battery box:800*188*512 (single)   |  |
| Package Dimension L*W*H(mm)          | Inverter high-voltage box: 1115*300*880<br>Battery box:920*310*735 (single)<br>(Packaging size including accessories) |  | Inverter high-voltage box: 1115*300*880<br>Battery box:920*310*735 (single)*2<br>(Packaging size including accessories) |  |
| Net Weight(kg)                       | Inverter high-voltage box: 65kg<br>Battery box: 95kg<br>Accessory box: 9kg  |  | Inverter high-voltage box: 65kg<br>Battery box: 95kg*2<br>Accessory box: 9kg  |  |
| Gross Weight(kg)                     |   |  | Inverter high-voltage box: 76kg (Including accessories) / Battery box: 105kg  |  |
| <b>Communication</b>                 |   |  |   |  |
| Protocol(Optional)                   |   |  | RS485/RS232/WLAN Optional   |  |
| <b>Certificates</b>                  |   |  |   |  |
| System                               |   |  | UN38.3,MSDS,EN,IEC  |  |
| Cell                                 |   |  | UN38.3,MSDS,IEC62619,CE,U1973,UL2054  |  |