



# ESS Solution

SE-F12 Air

SE-F12 Air-H



## Safer & Reliable

Lithium Iron Phosphate (LFP) Battery, safety and long lifespan.  
Built-in intelligent BMS with active fuse, providing complete protection.  
Intelligent thermal management, IP65, wide temperature range: -20°C to 55°C.



## Convenient & Smart

Battery module auto networking ( No DIP switches), easy to use.  
Support Deye Cloud remotely monitoring and upgrade via Deye Inverter.  
Support local Bluetooth APP monitoring and upgrade.



## Flexible

Modular design, easy to expand, Max. 32 units in parallel.  
Suited to residential and small commercial applications for increasing the self-consumption ratio.



## Ultra-efficient

Support Max. 120A charge & 140A discharge.  
Integrated PACK design reduces line loss and increases energy density.



## Wall-Mounted & Floor-Mounted

Flat design, support wall-mounted and Floor-mounted, saving installation space.

| Model                                           |                 | SE-F12 Air                       | SE-F12 Air-H                                         |
|-------------------------------------------------|-----------------|----------------------------------|------------------------------------------------------|
| Main Parameters                                 |                 |                                  |                                                      |
| Battery Chemistry                               |                 | LiFePO <sub>4</sub>              |                                                      |
| Rated Capacity (Ah) <sup>[1]</sup>              |                 | 235                              |                                                      |
| Scalability <sup>[2]</sup>                      |                 | Max. 32 pcs in parallel          |                                                      |
| Nominal Voltage (V)                             |                 | 51.2                             |                                                      |
| Operating Voltage(V)                            |                 | 44.8 - 57.6                      |                                                      |
| Nominal Energy (kWh)                            |                 | 12.03                            |                                                      |
| Usable Energy (kWh) <sup>[1]</sup>              |                 | 12.03                            |                                                      |
| Max. Output Power (kW)                          |                 | 11.8                             |                                                      |
| Charge Current(A) <sup>[3]</sup>                | Recommend       | 75                               |                                                      |
|                                                 | Max. Continuous | 120                              |                                                      |
|                                                 | Peak            | 180(10sec)                       |                                                      |
| Discharge Current(A) <sup>[3]</sup>             | Recommend       | 75                               |                                                      |
|                                                 | Max. Continuous | 140                              |                                                      |
|                                                 | Peak            | 210(10sec)                       |                                                      |
| Other Parameter                                 |                 |                                  |                                                      |
| Recommend Depth of Discharge                    |                 | 90% DOD                          |                                                      |
| Dimension (Without hanging board and terminals) |                 | 464*767*244.5mm                  |                                                      |
| Weight Approx.                                  |                 | 93kg                             |                                                      |
| Display                                         |                 | LCD(SOC, Alarm)                  |                                                      |
| Ingress Protection Rating                       |                 | IP65                             |                                                      |
| Operating Temperature                           |                 | Charge: 0~55℃, Discharge:-20~55℃ | Charge: -20~55℃ (Heating On) ,<br>Discharge: -20~55℃ |
| Storage Temperature                             |                 | 0℃~35℃                           |                                                      |
| Relative Humidity                               |                 | 5%~95%,Non-Condensing            |                                                      |
| Altitude                                        |                 | ≤3000m                           |                                                      |
| Cycle Life                                      |                 | ≥6000(25℃±2℃ ,70%EOL)            |                                                      |
| Max. Energy RTE (DC) <sup>[1]</sup>             |                 | 95%                              |                                                      |
| Isolation Protection                            |                 | Built-in Circuit Breaker         |                                                      |
| Installation                                    |                 | Wall-Mounted, Floor-Mounted      |                                                      |
| Communication                                   |                 | CAN2.0, RS485, Bluetooth         |                                                      |
| Certification                                   |                 | UN38.3, CE, CB                   |                                                      |
| Energy Throughput <sup>[4]</sup>                |                 | 37 MWh                           |                                                      |
| Warranty Period <sup>[4]</sup>                  |                 | 10 years                         |                                                      |

[1] Test conditions : 25℃±2℃, at beginning of life, 0.3C charge & 0.3C discharge,100% DOD.

[2] Max. 64 pcs can parallel with CAN-Bridge.

[3] The current is affected by temperature and SOC.

[4] Conditions apply, refer to Deye Warranty Letter.

# Deye APP



Bluetooth APP Monitoring



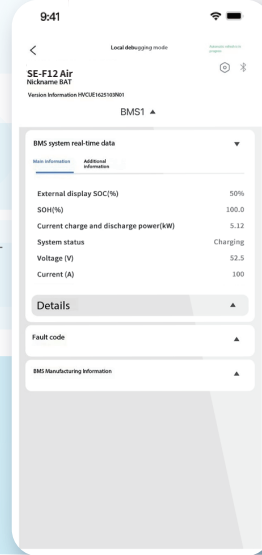
Low Power (Bluetooth LE)



Automated upgrade



Local monitoring mode for battery



Quick Pairing



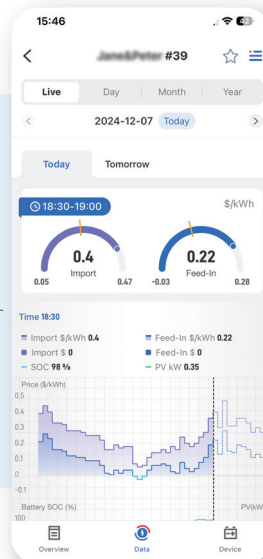
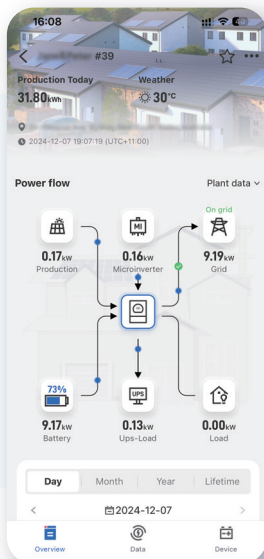
No Internet Needed



Portable Control



Remote monitoring mode for ESS (Deye Inverter & Battery)



Real-time Equipment Monitoring



Intelligent Charging/Discharging Strategies



AI Data Analytics



Customized Maintenance

## Smarten Up Your Home Energy



Download Deye APP to join us!

Embrace a seamless, effortless energy experience that's both ecofriendly and budget-friendly with our intelligent assistant



Deye ESS / Deye New Energy



www.deyeess.com / www.deyeinverter.com