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 switchs), 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.

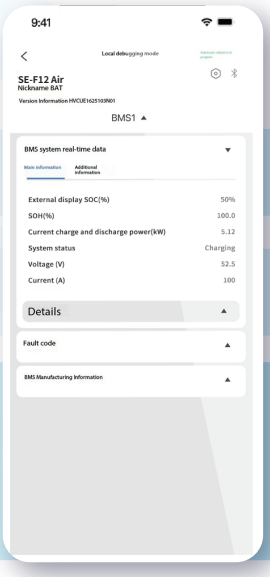
Model		SE-F12 Air	SE-F12 Air-H
Main Parameters			
Battery Chemistry		$LiFePO_4$	
Rated Capacity (Ah) [1]		235	
Scalability [2]		Max. 32 pcs in parallel	
Nominal Voltage (V)		51.2	
Operating Voltage(V)		44.8 - 57.6	
Nominal Energy (kWh)		12.03	
Max. Output Power (kW)		7.2	
Charge Current(A) [3]	Recommend	75	
	Max. Continuous	120	
	Peak	180(10sec)	
Discharge Current(A) [3]	Recommend	75	
	Max. Continuous	140	
	Peak	210(10sec)	
Other Parameter			
Depth of Discharge [4]		95%	
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°C, Discharge:-20~55°C	Charge: -20~55°C (Heating On) , Discharge: -20~55°C
Storage Temperature		0°C~35°C	
Relative Humidity		5%~95%,Non-Condensing	
Altitude		≤3000m	
Cycle Life [1]		≥6000(70%EOL)	
Max. Energy RTE (DC) [1]		95%	
Isolation Protection		Built-in Circuit Breaker	
Installation		Wall-Mounted, Floor-Mounted	
Communication		CAN2.0, RS485, Bluetooth	
Certification		UN38.3, CE, CB	
Energy Throughput [5]		37 MWh	
Warranty Period [5]		10 years	

[1] Test conditions : 0.2C Charging & Discharging, 25°C±2°C.
[2] Max. 64 pcs can parallel with CAN-Bridge.
[3] The current is affected by temperature and SOC.
[4] Adjustable as required.
[5] Conditions apply, refer to Deye Warranty Letter.

Deye APP

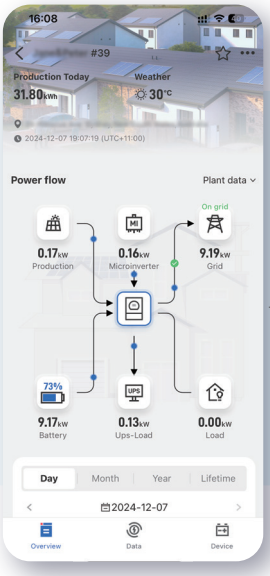
Local monitoring mode for battery

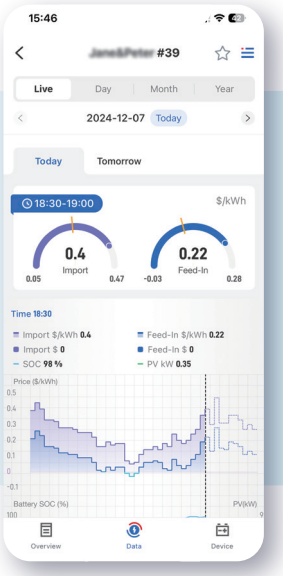
- Bluetooth APP Monitoring
- Low Power (Bluetooth LE)
- Automated upgrade



- 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