

RESIDENTIAL ESS SOLUTION

DEYE SPRING AI SERIES



Reliable

- High discharge power, IP65
- Natural cooling, wide temp: -20°C to 55°C



Eco-Friendly

- Non-toxic materials
- Pollution-free



Quick Installation

- Flat, stackable design
- Floor-mounted, no wiring



Flexible

- Modular, Max. 6 clusters in parallel (36pcs)
- Max capacity 184kWh
- Residential/commercial use



Convenient

- Auto networking, easy maintenance
- Remote monitoring, firmware upgrades



Safer

- Cobalt-free LFP battery
- Intelligent BMS, long lifespan, high efficiency

≥6000

Cycles

IP65

Rated for indoor and outdoor use

70%

EOL

10 years

Warranty for long-term peace of mind

Model		AI-W5.1-B					
Main Parameter							
Battery Chemistry		LiFePO4					
Built-in Circuit Breaker		125A 2P, 60Vdc					
Nominal Energy (kWh)		5.12					
Usable Energy (kWh) ^[1]		5.12					
Capacity (Ah)		100					
Nominal Voltage (V)		51.2					
Operating Voltage(V)		44.8~57.6					
Rated DC Power （kW）		2.5					
Charge/Discharge Current (A) ^[2]	Recommend	50					
	Max.	100					
	Peak(10s,25°C)	150					
Other Parameter							
Recommend Depth of Discharge		100%					
Battery Dimension (W/D/H, mm)		720*255*300 (without terminal parts)					
Battery Weight (kg)		53					
Master LED Indicator		Battery module: 3LED (working, alarming, protecting), PDU module: 5LED(SOC:20%~ 100%)&3LED (working, alarming, protecting)					
Operating Temperature		Charge: 0~55°C (-20°C~55°C when heating on) / Discharge: -20°C~55°C					
Storage Temperature		0°C ~ 35°C					
IP Rating of Enclosure		IP65 (after stacking)					
Humidity		5%~95%, non-condensing					
Altitude		≤3000m					
Installation		Floor-Mounted					
Communication Port		CAN2.0, RS485					
Cycle Life		≥6000(25°C±2°C ,0.5C/0.5C,70%EOL)					
Energy Throughput		16MWh(Battery Module @70%EOL)					
Warranty Period ^[3]		10 years					
Certification		UN38 .3, IEC62619, CE, UK, VDE2510-50, CEI0-21,CE-LVD, CEC, FCC, UL1973, UL9540A					
Parallel expansion							
Battery system	Battery Pack Quantity	1	2	3	4	5	6
	System Usable Energy (kWh) [1]	5.12	10.24	15.36	20.48	25.6	30.72
	System Recommend Charge/Discharge Current (A)	50	100	150	200	250	250
	System Max. Charge/Discharge Current (A) [2]	100	200	250	250	250	250
	System Rated DC Power （kW）	2.5	5	7.5	10	12	12
	System Dimension (W/D/H, mm) (With PDU, Base)	720*255*569	720*255*850	720*255* 1131	720*255* 1412	720*255* 1693	720*255* 1974
	System Weight (kg) (With PDU, Base)	74.5	127.5	180.5	233.5	286.5	339.5

[1]DC Usable Energy, test conditions: 100%DOD, 0.5C charge & discharge at 25°C . System usable energy may vary due to system configuration parameters.

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

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

[4]Made in China.