

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 combinations					
Main Parameter							
Battery Model Number		AI-W5.1-B	AI-W10.2-B	AI-W15.3-B	AI-W20.4-B	AI-W25.6-B	AI-W30.7-B
Number of battery units in parallel (Optional)		1	2	3	4	5	6
Battery Chemistry		LiFePO ₄					
Built-in Circuit Breaker		125A 2P, 60Vdc					
Battery Module Energy (kWh)		5.12					
Battery Module Voltage (V)		51.2					
Battery Module Capacity (Ah)		100					
Nominal Voltage (V)		51.2					
Operating Voltage (V)		44.8 ~ 57.6					
Nominal Energy (kWh)		5.12	10.24	15.36	20.48	25.6	30.72
Usable Energy (kWh) ^[1]		4.6	9.2	13.8	18.4	23	27.6
Rated DC Power (KW)		2.5	5	7.5	10	12	12
Charge / Discharge Current (A) ^[2]	Recommend	50	100	150	200	250	250
	Max.	100	200	250	250	250	250
	Peak (10s, 25°C)	150	270	360	360	360	360
Other Parameter							
Recommend Depth of Discharge		90%					
System Dimension (W × D × H, mm)		720×255×569	720×255×850	720×255×1131	720×255×1412	720×255×1693	720×255×1974
System Weight (kg)		74.5	127.5	180.5	233.5	286.5	339.5
Battery Module Dimension (W × D × H, mm)		720 × 255 × 300 (without terminal parts)					
Battery Module Weight (kg)		55					
MasterLED Indicator		Battery module : 3LED (working, alarming, protecting) , PDU module : 5LED (SOC : 20% ~ 100%) & 3LED (working, alarming, protecting)					
IP Rating of Enclosure		IP65 (after stacking)					
Operating Temperature		Charge : -20°C ~ 55°C / Discharge : -20°C ~ 55°C					
Standard charging method by manufacturer		Charge at 25±2°C at constant current 50A until the voltage reaches 57.6V.					
Standard discharging method by manufacturer		Discharge at 25±2°C at constant current 50A until the voltage reaches 44.8v.					
Storage Temperature		0°C ~ 35°C					
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, 90%DOD, 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					

[1]DC Usable Energy, test conditions: 90% 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.