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
Waranty for long-term peace of mind

Stacked Battery (LV)

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)		720×255×608	720×255×908	720×255×1208	720×255×1508	720×255×1808	720×255×2108
System Weight (kg)		78	131	184	237	290	343
Battery Module Dimension (W × D × H, mm)		720±3×254±1.5×300±1.5					
Battery Module Weight (kg)		53					
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 : 0°C~55°C (-20°C~55°C when heating on) / 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.