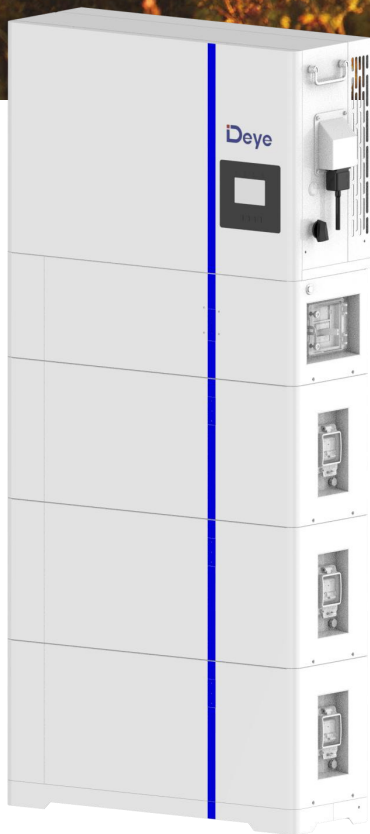


AI-W5.1-5/6/8/10/12P3-EU-B-ESS



All-in-one Energy Storage System

- ◆ All-in-one design, integrated 5kW~12kW Three Phase hybrid inverter and battery
- ◆ Comfortable and easy control via App, PC or Touch-Display
- ◆ Leading smart application: peak-shaving, smart load, AC couple etc
- ◆ Modular lithium iron phosphate battery, capacity of 5kWh~30kWh, scalable and safety
- ◆ Flat and stackable design, floor mounted, no wiring and extra fixing screws, quick and easy installation.
- ◆ Fast switching time of 4ms, ensuring your energy security



Stock Code: 605117.SH

Model	AI-W5.1-5P3-EU-B	AI-W5.1-6P3-EU-B	AI-W5.1-8P3-EU-B	AI-W5.1-10P3-EU-B	AI-W5.1-12P3-EU-B
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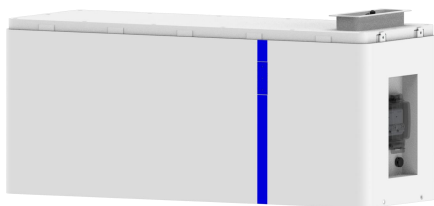
System Specification					
Nominal Output Power/UPS Power (W)	5000 / 5000	6000 / 6000	8000 / 8000	10000 / 10000	12000 / 12000
AC Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac, 0.85Un-1.1Un				
Grid Type	Three Phase				
Recommended Energy Configuration	5kWh(Min.)		10kWh(Min.)		15kWh(Min.)
Max. Charging/Discharging Current (A)	120	135	190	210	240
Battery Operating Voltage (V)	43.2 ~ 57.6				
Battery Chemistry	LiFePO ₄				
IP Rating of Enclosure	IP65 (after stacking)				
System Certification	IEC62619, IEC60730, CE, VDE2510-50, CEI 0-21				
Warranty ^[1]	10 years				

Inverter Technical Specification					
Max. PV Access Power (W)	10000	12000	16000	20000	24000
Max. PV Input Power (W)	8000	9600	12800	16000	19200
Max. PV Input Voltage (V)	800				
Rated PV Input Voltage (Vdc)	550				
Start Up DC Voltage (Vdc)	160				
MPPT Voltage Range (Vdc)	200~650				
Max. PV Input Current (A)	20+20			36+20	
Max. PV Short-circuit Current (A)	30+30			54+30	
No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1			2/2+2	
Peak Power (off grid)	2 time of rated power, 10s				
Power Factor	0.8 leading to 0.8 lagging				
DC injection current (mA)	THD<3% (Linear load<1.5%)				
Display	LCD				
Relative Humidity	0% ~100% (No Condensing)				
Dimension (W x D x H,mm)	720x255x440				
Weight (kg)	38				
Communication with BMS	CAN2.0				
EMC/Safety Regulation	IEC/EN 62109-1,IEC/EN 62109-2,IEC/EN 61000-6-1, IEC/EN 61000-6-2,IEC/EN 61000-6-3,IEC/EN 61000-6-4				
Grid Regulation	VDE4105,IEC61727/62116,VDE0126,AS4777.2,CEI 0-21,EN50549-1, G98,G99,C10-11,UNE217002,NBR16149/NBR16150				
Max. Efficiency	97.60%				
Max. charging/discharging efficiency	95.50%				

Battery Technical Specification	
Built-in Circuit Breaker	125A 2P, 60Vdc
Nominal Voltage (V)	51.2
Battery Module Energy (kWh)	5.12
Module Scalability	Max.36 pcs in parallel(Max. capacity of 184kWh)
Battery Module Dimension	720*255*300(W x D x H, mm)
Battery Module Weight (kg)	53
Operating Temperature Range	Charge: -20°C ~ 55°C / Discharge: -20°C ~ +55°C
Cycle Life	≥6000(25°C±2°C, 0.5C/0.5C, 90%DOD, 70%EOL)
Battery Module Certification	IEC62619, CE, UK, VDE2510-50, CEI 0-21, UN38.3, CE-LVD, CEC

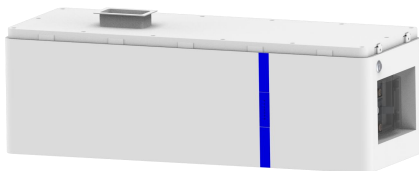
[1] Conditions apply, refer to Deye Warranty Letter.

Model	Accessories Parts Description	Remark
AI-W5.1-B Module (individual package)	5.12kWh Battery Module (Standard Configuration)	Stacked battery modules, each 5.12kWh, a single inverter can be stacked and installed 1~6 (battery capacity 5~30kWh), the maximum expansion of 36 modules to 184kWh.
AI-W5.1-PDU3-B+Base (individual package) (Optional 1)	Power Distribute Unit 3 (Included)	Battery power and communication quickly interface connect with Inverter and LED display system status, only support 2~6 modules expansion, capacity 10~30kWh.
	AI-W5.1-Base (Included)	The bottom support seat
AI-W-B-PDUP3-2+Base (individual package) (Optional 3)	Power Distribute Unit 2 P3 (Included)	Support battery expansion, include PV and three-phase AC distribution
	AI-W5.1-Base (Included)	The bottom support seat



Model: AI-W5.1-B (Battery Module)

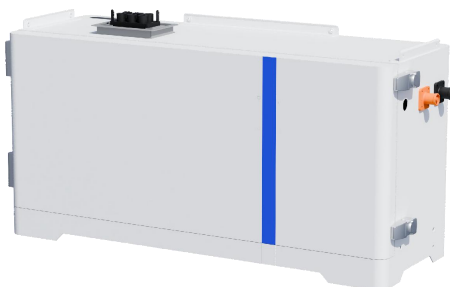
Details: 5.12kWh, 720*255*300(W x D x H,mm), 53kg



Model: AI-W5.1-PDU3-B

Details: 720*255*228(W x D x H,mm), 15kg

Built-in Battery Circuit Breaker



Model: AI-W-B-PDUP3-2

Details: 720*255*288(W x D x H,mm), 26kg

Built-in AC Circuit Breaker, PV fuse and SPD, Battery Circuit Breaker



Model: AI-W5.1-Base (Battery Base)

Details: 720*255*68(W x D x H,mm), 6.5kg