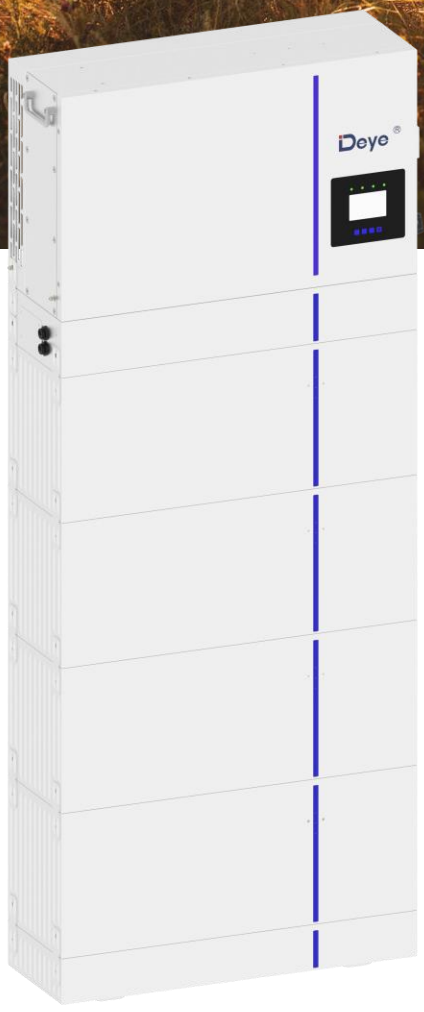
AI-W5.1-5/6/8/P1-EU
AI-W5.1-8/10/12P3-EU



All-in-one Energy Storage System

- All-in-one design, integrated 5kW~12kW 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 or wall mount, no wiring and extra fixing screws, quick and easy installation.
- Fast switching time of 4ms, ensuring your energy security

Deye

Stock Code: 605117.SH

Technical Data

Model	AI-W5.1-5P1-EU	AI-W5.1-6P1-EU	AI-W5.1-8P1-EU	AI-W5.1-8P3-EU	AI-W5.1-10P3-EU	AI-W5.1-12P3-EU
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; L/N/PE 220/230Vac			50/60Hz; 3L/N/PE 220/380, 230/400Vac		
Grid Type	Single Phase			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	LiFePO4					
IP Rating of Enclosure	IP65					
System Certification	IEC62619,IEC60730,CE,VDE2510-10, CEI 0-21					
Warranty	10 years					
Inverter Technical Specification						
Max. PV Input Power (W)	6500	7800	10400		13000	15600
Max. PV Input Current (A)	13+13		26+26	13+13	26+13	
Rated PV Input Voltage (Vdc)	370 (125~500)			550 (160~800)		
Start Up DC Voltage (Vdc)	125			160		
MPPT Voltage Range (Vdc)	150-425			200-650		
Max. PV Short-circuit Current (A)	17+17		34+34	17+17	34+17	
No. of MPP Trackers	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	15% ~ 85% (No Condensing)					
Dimension (W x D x H,mm)	720x255x330			720x255x440		
Weight (kg)	32			36		
Communication with BMS	CAN					
EMC	IEC/EN 61000-6-1/2/3/4					
Safety	IEC/EN 62109-1,IEC/EN 62109-2					
Grid Regulation	CEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116,IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11					
Max. Efficiency	97.60%					
Max. charging/discharging efficiency	95.50%					
Battery Technical Specification						
Nominal Voltage (V)	51.2					
Battery Module Energy (kWh)	5.12					
Scalability	Max.6 systems in parallel(36 pcs), Max. capacity of 184kWh					
Battery Module Dimension	720*255*285(W x D x H,mm)					
Battery Base Dimension	720*255*85(W x D x H,mm)					
Battery PDU Dimension	720*255*110(W x D x H,mm)					
Battery Module Weight (kg)	50					
Operating Temperature Range	Charge: 0～55℃ / Discharge: -20℃～+55℃					
Cycle Life	≥6000(25℃±2℃,0.5C/0.5C,70%EOL)					
Battery Module Certification	IEC62619, CE,VDE2510-10, CEI 0-21, UN38.3					

NINGBO DEYE ESS TECHNOLOGY CO., LTD
Add: No.1 Tianxu Road, Economic Development Zone, Cixi, Ningbo, China | Tel: 0086-0574-86228851 | E-mail: market@deye.com.cn

Battery Pack Accessories

Model	Accessories Parts Description	Remark
AI-W5.1-PDU2	Power Distribute Unit (Standard Configuration)	Battery power and communication quickly interface connect with Inverter and LED display system status
AI-W5.1-Base	Battery Base (Standard Configuration)	The bottom support seat

Model: AI-W5.1-PDU2

Details: 720*255*110(W x D x H,mm), 13kg

Model: AI-W5.1-Base

Details: 720*255*85(W x D x H,mm), 10kg