



Fancy Series

(IP54, 3 Year Warranty)



High Surge Power for Motor Loads

Delivers up to 2× surge power (5s), ensuring reliable start-up of pumps, compressors, refrigerators and power tools.



150% PV Oversizing for Higher Yield

Supports PV input up to 150% of rated power, allowing more solar generation and faster ROI, especially in regions with unstable sunlight.



All-in-One Design, Save Cost & Space

Integrated inverter, battery, and controller in one unit, reducing installation time, wiring complexity, and total system cost.



Safe, Durable and Field-Proven

Built with Grade-A LiFePO4 batteries and IP54 protection, ensuring stable operation in high temperature, dusty and humid environments.



Easy Installation, Compact Design

Compact and movable structure designed for fast and hassle-free installation, Low-noise operation (<50dB) ensures a quiet and comfortable user experience.



Smart Control, Reliable After-Sales Support

Integrated WiFi/App monitoring enables real-time system tracking and remote control for improved convenience and efficiency. Supported by a 3-year warranty and 24/7 technical assistance, ensuring long-term reliability and peace of mind for users.

All-in-One ESS

All-in-One

Decent

Deluxe

Diamond

Inverter	3600W	4000W	6000W
Battery	25.6V/205Ah	25.6V/280Ah	51.2V/314Ah



GENERAL SPECIFICATIONS		AI-2450	AI-2470	AI-4816
All-in-One Energy Storage System(Inverter/Battery)		3.6KW/5kWh	4KW/7kWh	6KW/16kWh
PV Input	PV Maximum Input Power	4500W	8000W	12000W
	Max. PV Open Circuit Voltage		500V	
	MPPT Operating Voltage Range		85V-450V	
	Number of MPPT	1	1	1
	Number of Input Strings per MPPT	2	2	2
	Input Terminal		MC4 Connector	
	Max. Input Current per MPPT	18A	27A	32A
	Max. Short-Circuit Current Per MPPT	22A	35A	40A
Battery	Battery type	LiFePO4/Lead-acid		
	Battery voltage range	20~30Vdc	20~30Vdc	40~60Vdc
	Rated Battery Voltage	25.6Vdc	25.6Vdc	51.2Vdc
	Max. Charge/Discharge Current	120A/170A	140A/180A	120A/150A
	Nominal Battery Energy	5.248KWH	7.168kWh	16.076kWh
	Battery Capacity	205AH	280AH	314AH
	BMS Communication Mode	CAN, RS485		
AC Input	Max Input Power	4600W	8000W	11500W
	Max Input Current	20A	36A	50A
	Nominal Voltage	220/230/240Vac		
	Frequency	50/60Hz		
	Acceptable Voltage Range	170-280Vac(For UPS); 90-280Vac (For Home Appliances)		
AC Output	Rated Output Power	3600W/3600VA	4000W/4000VA	6000W/6000VA
	Rated Output Current	16A	18.2A	27.3A
	Rated Output Voltage	220/230/240Vac		
	Rated Output Frequency	50/60Hz		
	Parallel Capability	Max. 12 units		
	Surge Power	7000VA 5S	8000VA 5s	12000VA 5s
	THDv (@ Linear Load)	<3%		
	AC output Terminal	Waterproof AC Sockets (16A) × 2		Wiring Terminal(50A)
	Switching Time	10 ms UPS Mode, 10 ms Appliance Mode		
	Peak Efficiency	92%	92%	93%
Max. MPPT efficiency	99%	99%	99%	
Protection	Inner Protection	Short-circuit / Overvoltage / Overload Protection / Over-Temperature		
	Surge Protection	PV: Type III, AC: Type III		
	IP Rating	IP54		
General Parameters	Operating Temperature Range	-10°C~55°C		
	Relative Humidity Range	5%~95%		
	Altitude	>2000m Derating		
	Standby Self-Consumption Power	<30W	<30W	<45W
	Installation Type	Integrated Roller		
	Cooling Mode	Fan Cooling		
	Communication	RS232/RS485/CAN/WI-FI		
	Display	LCD/APP		
	Dimensions (L*W*H)(mm)	660×500×220	790×500×230	1080×520×230
	Net Weight (kg)	52kg	66kg	130kg
Warranty	3 Years+			