

UFox-X1

Single phase hybrid(Off-grid) energy storage system

UFox-X1 series is a single phase system, the output and AC input is 220V/230V/240V; it can connect with solar panels, grid (or generator), load, it built-in lithium battery, hybrid inverter and energy management system. UFox-X1 has four working modes: SOL(Solar first), UEI(Utility first), SBU(Solar-Battery-Utility), SUB(Solar-Utility -Battery). These working modes are described referring to the setting part on user manual.



[⚡] Features

- Modular and All-in-one design , Battery module can be expandable; indoor installation ;
- Single phase Euro or U.S. standard, support access to multi standard grid voltage
- Hybrid working modes (Solar first mode, Utility first mode, solar-Utility-battery, Solar-battery-utility) ;
- Easy to install and maintain; Meet different customer's design and DIY requirements; With iOS/Android App monitoring ;
- Multiple protection and warning system from software to hardware, safe and reliable.
- Meet TUV, SAA, CE ,UN38.3 etc. certification requirements



[☐☐] Applications

- Self-Spontaneous use (Solar first mode)
- Power Consumption and Backup (emergency power backup mode)
- Generation power and grid as complementary for energy storage system
- Off-peak power consumption (Peak-shaving mode)

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Models		UFox-X1-35E	UFox-X1-50E	UFox-X1-30U
Battery	Nominal Voltage	51.2Vdc		
	Voltage Range	45~57.6Vdc		
	Capacity	2.56Kwh*N(N=3~8) or 5.12Kwh *N(N=3~6)		
	Max.discharge rate	1C		
	Max.charge rate	1C		
	Battery Type	Li-ion (LFP)		
AC Output	Rated Power	3500W	5000W	3000W
	Surge Power	7000W	10000W	6000W
	Output Voltage	220/230/240Vac	220/230/240Vac ± 3%	100/110/120Vac ± 3%
	Output Current	16A	22A	30A
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz
	VTHD	< 3%	< 3%	< 3%
AC Output	Output Wave	Pure Sine Wave		
	Output Type	Pluggable connector		
	Max. Efficiency	93%	93%	93%
	AC Input Voltage Range	170~280Vac	170~280Vac	65~140Vac
AC Input	AC Input Frequency	50/60Hz	50/60Hz	50/60Hz
	Max AC Charge Current(Battery)	30A(0~60A) Adjustable	30A(0~60A) Adjustable	30A(0~60A) Adjustable
	Max. PV Power(Recommended)	6000W	6000W	4000W
PV Input	Max. PV Voltage	450Vdc	450Vdc	250Vdc
	MPPT Range	120~430Vdc	120~430Vdc	120~250Vdc
	Max PV Charge Current(Battery)	100A	100A	80A
	Operating Conditions	Operating Temperature	0~50°C	
Storage Temperature		-15~60°C		
Humidity		5%~95%		
Cooling Strategy		Fan		
Weight		Approx. 140kg		
Dimension [W*D*H]		620*345*770mm		
Packing		wooden case		
Packing Dimension [W*D*H]		TBD		
IP class		IP20		
Communication		WIFI/RS485		
Warranty		3 years		