UFox
Single phase hybrid(Off–grid) energy storage system

Ufox series can work with connecting solar panels, grid (or generator), load, with built-in lithium ion phosphate battery, hybrid inverter and energy management system. UFox has four working modes: SOL(Solar first), UEI(Utility first), SBU(Solar-Battery-Utility), SUB (Solar-Utility -Battery) , The four working modes are described referring to the setting part on user manual.

Features

- All-in-one Design, Indoor installation;
- Single phase design, supporting access to Euro or U.S. standard grid voltage；
- Hybrid working modes(Solar frist, Utility first, Solar-Utility-Battery, Solar-Battery-Utility)；
- Easy to install and maintain; Meet the requirements of customer's DIY; With iOS/Android APP mornitoring;
- 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
- Peak load shifting (Peak-shaving mode)

Solar Panel

Grid   Generator

Cloud

Shine Phone

Shine Server

Load

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Models		UFox-Mini-30E	UFox-Plus-30E	UFox-Plus-35E	UFox-Plus-50E	UFox-Plus-30U
Battery	Nominal Voltage	51.2Vdc	51.2Vdc			
	Voltage Range	45~57.6Vdc	45~57.6Vdc			
	Capacity	3.43Kwh	5.12Kwh			
	Max.discharge rate	1C	1C			
	Max.charge rate	1C	1C			
	Battery Type	Li-ion（LFP）				
AC Output	Rated Power	3000W	3000W	3500W	5000W	3000W
	Surge Power	6000W	6000W	7000W	10000W	6000W
	Output Voltage	220/230/240Vac	220/230/240Vac	220/230/240Vac	220/230/240Vac	100/110/120Vac
	Output Current	13.7A	13.7A	16A	22A	30A
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	VTHD	<3%	<3%	<3%	<3%	<3%
	Output Wave	Pure Sine Wave				
	Output Type	AC Socket×2+Terminals				
	Max. Efficiency	93%	93%	93%	93%	93%
AC Input	AC Input Voltage Range	170~280VAC	170~280VAC	170~280VAC	170~280VAC	65~140VAC
	AC Input Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Max AC Charge Current(Battery)	15A(0~15A) Adjustable	15A(0~15A) Adjustable	30A(0~60A) Adjustable	30A(0~60A) Adjustable	30A(0~60A) Adjustable
PV Input	Max. PV Power(Recommended)	1500W	1500W	6000W	6000W	4000W
	Max. PV Voltage	145Vdc	145Vdc	450Vdc	450Vdc	250Vdc
	MPPT Range	60~115Vdc	60~115Vdc	120~430Vdc	120~430Vdc	120~250Vdc
	Max PV Charge Current(Battery)	30A	30A	100A	100A	80A
Operating Conditions	Operating Temperature	0~50℃				
	Storage Temperature	-15~60℃				
	Humidity	5%~95%				
	Cooling Strategy	Fan				
	Installation method	Wall mounted/ Upright on the ground (Rubber feet)	Upright on the ground (Wheels)			
	Product Weight	48kg	64kg			
	Dimension [W*D*H]	510*200*540.5mm	585*230*612mm			
	Packing	woode case				
	Packing Dimension [W*D*H]	580*375*580mm (56kg)	630*275*738mm (75kg)			
	Enclosure Protection Rating	IP20				
	Communication	WIFI/RS485				
	Warranty	2 years				