3-8kW Hybrid Inverter / Single-phase

Suitable for intelligent switching on/off of small and medium-sized household systems

Easy Installation

Ultra-silent

IP65 protection

Integrated photovoltaic energy storage

Integrated PV and energy storage, supporting a variety of batteries:

Safe and reliable

IP65 protection grade, high power quality, does not interfere with electrical equipment, ultra-low radiation

Intelligent switching

Support emergency power supply, and seamless off-grid switching;

Intelligent and friendly

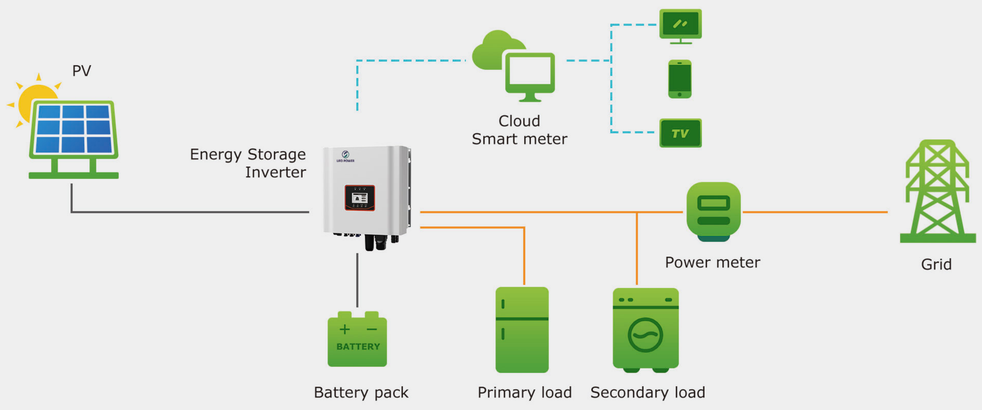
Lightweight body, easy installation, ultra-quiet design, flexible communication mode:

Wide voltage input

Ultra-wide PV voltage range 80V-500V, battery ultra-wide voltage range 85V-450V:

Efficient power generation

Maximum efficiency 97.8%, intelligent MPPT algorithm, tracking efficiency up to 99.99%.



UFO POWER

Technical Data		KY-ESS3K0H	KY-ESS4K2H	KY-ESS5K0H	KY-ESS6K0H	KY-ESS7K0H	KY-ESS8K0H
PV Input Data	Max. Input Power	4500W	6300W	7500W	9000W	10500W	12000W
	Max. Input Voltage	600V	600V	600V	600V	600V	600V
	MPPT Operating Voltage Range	80-500V					
	Start-up Voltage	60V					
	Nominal Input Voltage	360V					
	Max. Input Current	16A					
	Max. Short Circuit Current	25A					
	Number of MPPT Trackers	2					
	Number of Strings per MPPT	1/1					
Battery Input Data	Battery Voltage Range	85-450V					
	Max.Charge/Discharge Current	30A/30A					
	Max.Charge/Discharge Power	3000W/3000W	4200W/4200W	5000W/5000W	6000W/6000W	7000W/7000W	8000W/8000W
	Battery Type	Li-ion/Lead-acid					
AC Output Data(On-grid)	Nominal Output Power	3000W	4200W	5000W	6000W	7000W	8000W
	Max. Apparent Power	3000VA	4200VA	5000VA	6000VA	7000 VA	8000VA
	Nominal Output Voltage	230V					
	Nominal Output Frequency	50Hz /60Hz					
	Max. Output Current	13A	18.3A	21.7A	26A	30.4A	34.8A
	Power Factor	~1（0.8 lead to 0.8 lag can be set）					
	Total Harmonic Distortion	<3%					
AC Output Data(Back-up)	Nominal Output Power	3000W	4200W	5000W	6000W	7000W	8000W
	Nominal Output Voltage	230V					
	Max. Output Current	13A	18.3A	21.7A	26A	30.4A	34.8A
	Nominal Output Frequency	50Hz /60Hz					
Efficiency	Max. Efficiency	97.5%		97.8%			
	European Efficiency	97.10%					
Protection	Insulation Protection	Integrated					
	Residual Current Monitoring	Integrated					
	PV Reverse Polarity Protection	Integrated					
	Anti-islanding Protection	Integrated					
	Overcurrent Protection	Integrated					
	DC component protection	Integrated					
	DC Surge Protection	Type Ⅱ					
	AC Surge Protection	Type Ⅲ					
General Data	Operating Temperature Range	-25℃~60℃（>45℃ derating）					
	Altitude	<3000m					
	Noise Emission	<40dB					
	Topology	Transformerless isolation					
	Cooling	Natural convection					
	Ingress Protection Rating	IP65					
	Relative Humidity	0-95%					
	Display	LCD,WiFi+APP					
	Communication	WiFi/RS485/GPRS					
	Communication with Meter	CT/METER					
	Installation	Wall-mounted					
	Self-consumption at Night	<10W					
	Dimension（W*D*H）	390*192*407mm					
	Weight	17kg					