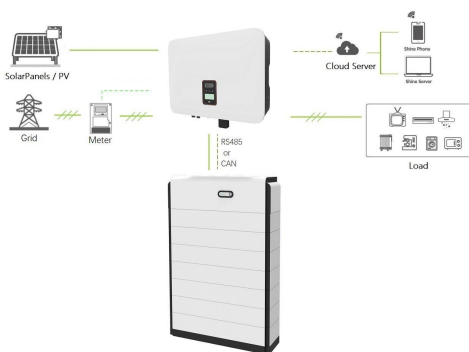


UHome-EX 3-Phase HV Hybrid (ON-Off-Grid) Energy Storage Solutions

UHome-EX series is a three phase system, the output of three phase system is the form of 3L/N/PE; UHome-EX can connect with solar panels, grid (or generator), load, it built-in lithium battery, hybrid inverter and energy management system. UHome-EX has three working modes: ECO mode, Peak shaving mode, EPS mode. These working modes are described refer to the setting part.



[⚡] Features

- Modular high voltage battery design with inverter separated, indoor or outdoor installation, only support access to Euro standard grid voltage
- Multiple modules connected in series up to 12PCS at most, the biggest capacity is 30kwh, 15 years of cycle life;
- Hybrid working mode (load-matching mode, power backup mode, peak shaving mode)
- 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 (ECO Mode, also solar first mode)
- Power Consumption and Backup (EPS mode)
- Smart home energy management
- Get profit from feedback energy to grid
- Grid peak and valley electricity price arbitrage (Peak-shaving mode)
- Get subsidy from grid dispatching

UHome-EX

3-Phase HV Hybrid (ON-Off-Grid) Energy Storage Solutions

Models		UHome-EX 6K0H	UHome-EX 8K0H	UHome-EX 10K0H	UHome-EX 12K0H
AC data (on-grid)	Rated power	6KVA	8KVA	10KVA	12KVA
	AC input voltage range	170~280Vac/phase*3			
	AC input frequency range	47.5~51.5Hz/57~61.5Hz			
	THDi	<3%			
	Max AC Current	20A/Phase*3			
AC data (Battery mode)	Max output Power	6.6KVA	8.8KVA	11KVA	13.2KVA
	Over Load	--@120%;10min@150%;60s@200%			
	THDv	<3%@Linear Load			
	Rated output AC voltage	3L/N/PE /220/380Vac ± 3%	3L/N/PE /230/400Vac ± 3%	3L/N/PE /240/415Vac ± 3%	
	Rated output AC frequency	50/60Hz			
	Output Wave	Pure Sine Wave			
	Automatic switching time	< 10ms			
Battery data	Battery Voltage Range	180~750Vdc			
	Battery Type	Li-ion(LFP)			
	Nominal Battery Capacity	2.56Kwh*N (N=4~12)			
	Max Charging/Discharging Current	25A/25A			
	Max. Battery Charging Conversion Efficiency	97.30%			
	Max. Battery Discharge Conversion Efficiency	97.30%			
	Communication	CAN/RS485			
PV data	Maximum PV power is recommended	7800W	10,400W	13,000W	15,600W
	Max PV Voltage	1000Vdc			
	MPPT voltage range	200~850Vdc			
	Max Input Current	13A/13A			
	MPPT Tracker/Strings	2 /1			
	MPPT Efficiency	>99%			
	Max. on-grid Efficiency	98.2%			
System data	Protections	PCS: Over/under voltage; Over/under frequency; Anti-islanding; ISO-resistance; RCD; Over load etc. Battery: Over/under voltage; Over load; Over Temperature, etc. System: Integrate SPD; MCB; Fuse; COM monitoring, etc.			
	Noise (typical)	<30dB			
	HMI	WIFI +App +LED			
	Working Temperature	0~45°C			
	Cooling method	Natural Convection			
	Humidity	10%~90%			
	Altitude	1000m(-1%/100m)			
	IP class	IP65+IP31			
	Installation	Wall mounting(inverter), cabinet(battery)			
	Dimension(W*D*H)	Depending on the capacity			
	Weight	Depending on the capacity			
Warranty	5years(free);10years(option)				