

Optimize Energy · Optimize Life!



UHome Series 3~8KW Single Phase All in One ESS

UHome-3~8K0L series is an all-in-one solar and storage solution, which integrates the inverter, battery charger, UPS and battery into a pre-wired modular system for easier and faster installation, which reduce the installation time of up to 50%.

Compact, elegant appearance with IP65 design, so it can be mounted indoor or outdoor withstanding all weather conditions.



Leading Technology

- Max. 15A PV input current per string
- 97.6% max. efficiency



Easy Installation

- Modular all in one design, quick installation with plug&play
- Flexible battery capacity expansion, 5~15kWh



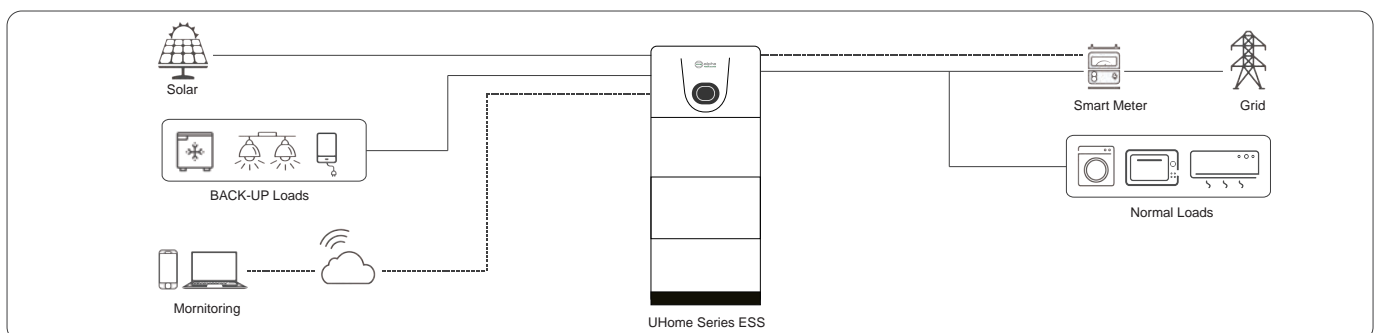
High Reliability

- IP 65 rating, indoor and outdoor installation
- LiFePO4 battery cell, safety and reliable



User-Friendly

- Real-time monitoring and parameter control through APP
- Ideal for residential application with low operating noise



Model	UHome-3K0L	UHome-3K6L	UHome-4K0L	UHome-4K6L	UHome-5K0L	UHome-6K0L	UHome-8K0L
Inverter							
Rated battery voltage	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V
Max. charge/discharge current	95/62.2A	95/75A	95/83.3A	95/95.8A	95/104.2A	95/110A	160A/160A
Max. input power	4500W	5400W	6000W	6900W	7000W	7000W	12000W
Max. PV voltage	550V						
Start-up voltage	120V						
Rated DC voltage	360V						
MPPT voltage range	125~500V						
No. of MPP trackers	2						
No. of string per MPP tracker	1/1	1/1	1/1	1/1	1/1	1/1	2/1
Max. input current	14/14A	14/14A	14/14A	14/14A	14/14A	14/14A	30/15A
Rated output power for on-grid and off-grid	3000W	3600W	4000W	4600W	5000W	6000W	8000W
Max. AC output current for on-grid and off-grid	13A	16A	17.4A	20A	21.7A	26A	35A
Rated output voltage	L/N/PE, 220V, 230V						
Rated frequency	50/60Hz						
THDv	< 3%						
Overload ability	110%, 60s /120%, 30s /150%, 10s						
Switch time	<20ms						
Inverter topology	Non-isolated						
Max. efficiency	97.6%						
Euro efficiency	97.0%						
Max. battery charge/discharge efficiency	95.0%						
Weight	35kg						
Dimension [W x D x H]	700*200*360mm						
Battery module							
Battery type	Li-ion (LFP)						
Rated battery voltage	51.2V						
Battery voltage range	40~58V						
Capacity	5.12kWh						
Weight	52kg						
Dimension [W x D x H]	700*200*385mm						
System Parameters							
System Structure							
Rated output power	3000~8000W						
Number of battery	1	2		3			
Battery capacity	5.12kWh	10.24kWh		15.36kWh			
Operating temperature	0 C ~50 C (Charging) / -15 C ~50 C (Discharging)						
Noise	<35dB						
Humidity	0~95%						
Cooling strategy	Natural						
Enclosure protection rating	IP65						
Communication	RS485, Optional: WiFi						
Operating altitude	<2000m						
Weight	99kg	152kg		203kg			
Dimension [W x D x H]	700*200*815mm	700*200*1200mm		700*200*1585mm			
Certificate							
EMC	EN61000						
Safety	IEC62109-1, IEC62109-2						
Grid	EN50549-1, VDE-AR-N-4105, CEI 0-21, AS/NZS 4777						