

Ucanpower, Bring Energy to 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. 14A 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, 5~40kWh



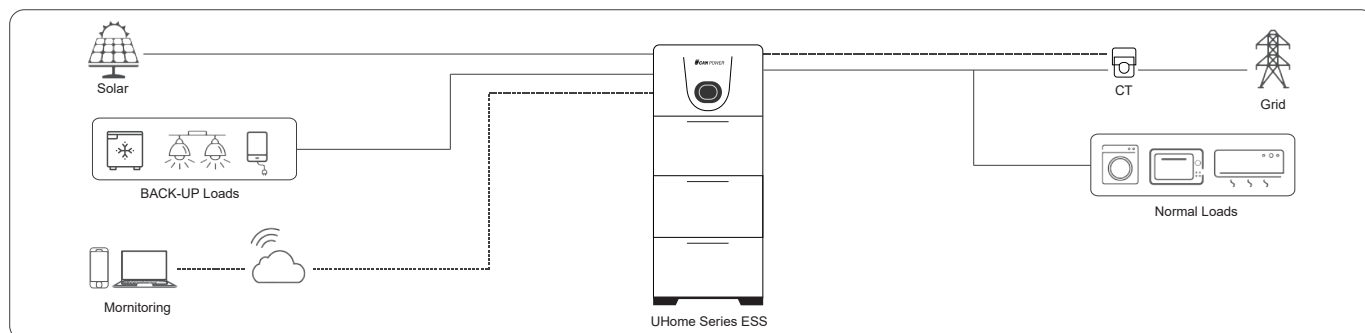
High Reliability

- 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



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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. Charging Power	3000W	3680W	4000W	4600W	5000W	6000W	8000W	
Max. charge/discharge current	60/60A	72/72A	80/80A	92/92A	100/100A	120/120A	160/160A	
Max. input power	4500W	5400W	6000W	6900W	7500W	9000W	12000W	
Max. PV voltage	550V							
Start-up voltage	100V							
Rated DC voltage	360V							
MPPT voltage range	80~500V							
No. of MPP trackers	2							
No. of string per MPP tracker	1/1	1/1	1/1	1/1	1/1	1/1	1/2	
Max.input current	14/14A	14/14A	14/14A	14/14A	14/14A	14/14A	14/28A	
Rated output power for on-grid and off-grid	3000W	3680W	4000W	4600W	5000W	6000W	8000W	
Rated output current	13A	16A	17.4A	20A	21.7A	26A	35A	
Max. output current	14.3A	16A	19.1A	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	34kg							
Dimension [W x D x H]	675*200*415mm							
Battery module								
Battery type	Li-ion (LFP)							
Rated battery voltage	51.2V							
Battery voltage range	44.8~57.6V							
Capacity	5.12kWh							
Weight	53.6kg							
Dimension [W x D x H]	675*200*365mm							
System Parameters								
System Structure								
Rated output power	3000~8000W							
Number of battery	1	2	3	4	5	6	7	8
Battery capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
Operating temperature	0°C~50°C (Charging) / -15°C~50°C (Discharging)							
Noise	<25dB							
Humidity	0~100%							
Cooling strategy	Natural							
Enclosure protection rating	IP65							
Communication	RS485 / Optional: WiFi							
Operating altitude	4000m(>3000m power derating)							
Weight	93kg	147kg	201kg	255kg	124kg/201kg	178kg/201kg	178kg/255kg	232kg/255kg
Dimension [W×D×H, mm]	675*200*840	675*200*1205	675*200*1570	675*200*1935	675*200*985 675*200*1570	675*200*1350 675*200*1570	675*200*1350 675*200*1935	675*200*1715 675*200*1935
Certificate								
EMC	EN61000							
Safety	IEC62109-1, IEC62109-2							
Grid	EN50549-1,VDE-AR-N-4105, CEI 0-21, C10/11, NRS097-2-1, G98&G99, NTS-631 TYPE A							

Information may be subject to change without notice during product improving.

Three Phase All-in-One Energy Storage System

UHome-KT Series is a three phase 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

- Up to 4 MPPTS design
- Up to 2 battery access
- Parallel operation with max. 10 units
- Intelligent loads management (e.g. Heat pump, diesel generator)



High Performance

- Up to 110% unbalanced load
- 150% PV input oversizing
- Max. 18A PV input current per string
- Less than 10ms UPS-level switching



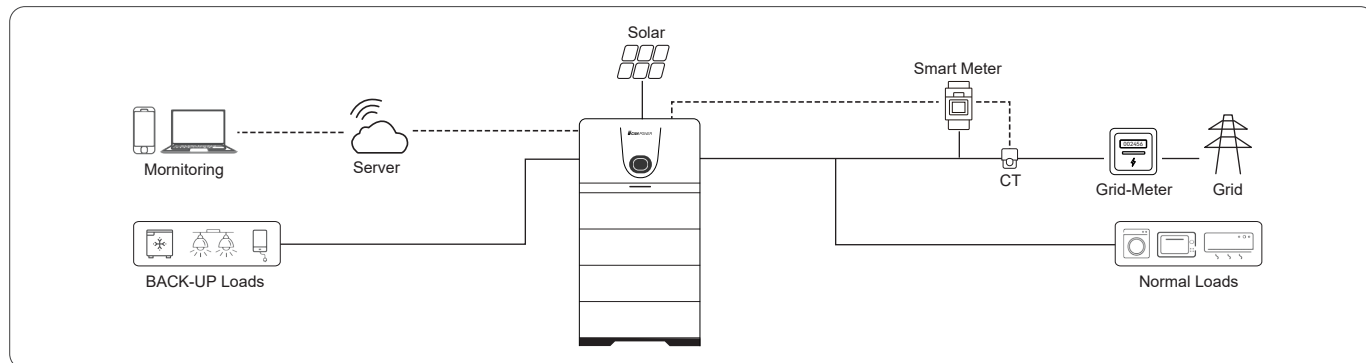
Easy Installation

- Modular All-in-One design, quick installation with Plug&Play
- IP65 protection degree, for indoor or outdoor installation
- Flexible battery capacity expansion: 10.24 to 40.96 kWh

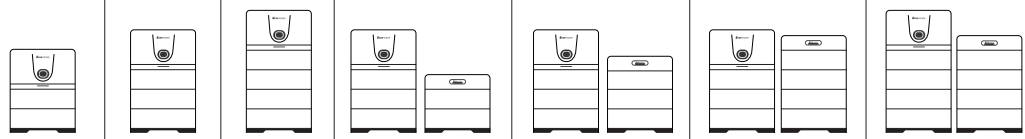


User-Friendly

- Easy data check via both Touch Screen and App
- Remote monitoring and parameter control through APP
- Ideal for residential application with low operating noise



System Parameters

System Structure							
Rated output power	4,000-6,000W (One battery input.)			8,000-20,000W (Two battery inputs.)			
Number of battery modules	2	3	4	5	6	7	8
Battery capacity	10.24kWh	15.36kWh	20.48kWh	25.60kWh	30.72kWh	35.84kWh	40.96kWh
Operating temperature	0℃-50℃ (charging) / -10℃-50℃ (discharging)						
Noise	<25dB						
Humidity	0-100%						
Communication	RS485 / WiFi						
Enclosure protection rating	IP65						
Operating altitude	<3,000m						
Weight	136.2kg	170.2kg	204.2kg	170.2kg / 87kg	170.2kg / 121kg	170.2kg / 155kg	204.2kg / 155kg
Dimension [W x D x H, mm]	892*200*1149	892*200*1421	892*200*1693	892*200*1149 892*200*1031	892*200*1149 892*200*1031	892*200*1149 892*200*1303	892*200*1149 892*200*1303

Inverter

Model	UHome-4KT	UHome-5KT	UHome-6KT	UHome-8KT	UHome-10KT	UHome-12KT	UHome-15KT	UHome-20KT
No. of battery inputs	1			2				
Battery voltage range	135-750V			135-750V				
Max. charge/discharge current	25A			25A/25A				
Max. PV input power	6,000W	7,500W	9,000W	12,000W	15,000W	18,000W	22,500W	30,000W
Max. PV voltage	1,000V			1,000V				
Start-up voltage	135V			135V				
Rated DC voltage	600V			600V				
MPPT voltage range	120-960V			120-960V				
No. of MPP trackers	2			4				
No. of string per MPP tracker	1/1			1/1/1/1				
Max.input current	18A/18A			18A/18A/18A/18A				
Rated output power for on-grid and off-grid	4,000W	5,000W	6,000W	8,000W	10,000W	12,000W	15,000W	20,000W
Max. AC output current for on-grid and off-grid	6.7A	8.3A	10A	13.3A	16.7A	20A	25A	33.5A
Rated output voltage	3L/N/PE, 220/380V, 230/400V			3L/N/PE, 220/380V, 230/400V				
Rated frequency	50/60Hz			50/60Hz				
THDv	< 3%			< 3%				
Peak output power, Duration	8,000VA, 60s	10,000VA, 60s	12,000VA, 60s	16,000VA, 60s	20,000VA, 60s	20,000VA, 60s	25,000VA, 60s	25,000VA, 60s
Switch time	<10ms			<10ms				
Cooling strategy	Natural			Natural			Fan	
Inverter topology	Non-isolated			Non-isolated				
Max. efficiency	98.1%	98.1%	98.1%	98.2%	98.2%	98.2%	98.2%	98.2%
Euro efficiency	97.4%	97.4%	97.4%	97.5%	97.5%	97.5%	97.5%	97.5%
Weight	37.5kg			50.5kg				
Dimension [W x Dx H]	892*200*470mm							

Battery Module

Battery type	Li-ion (LFP)
Rated battery voltage	51.2V
Battery voltgae range	44.8-57.6V
Capacity	5.12kWh
Weight	34kg
Dimension [W x D x H]	892*200*272mm

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UHC 3~8KS Series Single Phase Hybrid Inverter



The UHC 3~8KS series is a single-phase hybrid inverter developed specifically for residential customers. The device has built-in multiple operation modes to meet the diversified needs of customers for enhanced PV self-consumption, tariff peak shaving, pure off-grid use and emergency backup power.



Leading Technology

- 97.8% max. efficiency
- Starts at 80V for more generation time
- Continuous 110% AC overloading sustains power



High Reliability

- IP65 protection degree
- Silent 25dB operation for comfort
- Remote upgrades maintain system health



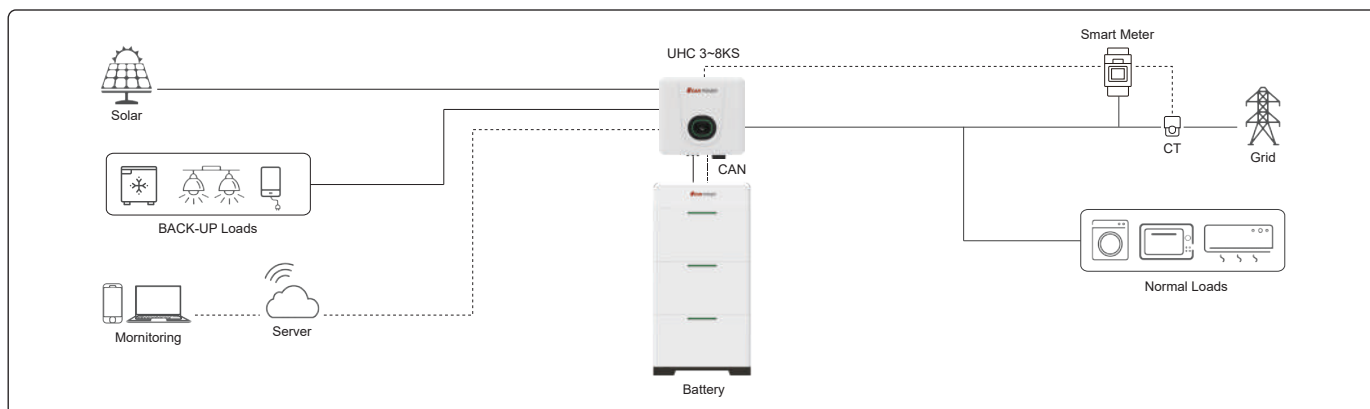
High Performance

- Max. 18A PV input current per string
- 150% PV input oversizing
- Less than 20ms UPS-level switching



User-Friendly

- Four work modes for diverse use
- Easy data check via both touch screen display and App
- Ideal for residential application with low operating noise



Model	UHC-3KS	UHC-3K6S	UHC-4KS	UHC-4K6S	UHC-5KS	UHC-6KS	UHC-8KS
PV Input							
Max.PV Array Power[Wp]@STC	4500	5400	6000	6900	7500	9000	12000
Max.DC Input Votage[V]	550						
Rated DC Voltage[V]	360						
Start-up Voltage[V]	60						
MPPT Voltage Range[V]	80-550						
No. of MPP trackers	2						
No. of string per MPP tracker	1+1						1+2
Max.DC Input Current[A]	18/18						18/36
Max.DC Short Current[A]	20/20						20/40
Battery							
Battery Type	LiFePO4/Lead-Acid						
Battery Voltage Range	44.0-58.4 @ LiFePO4 40.0-60.0 @ Lead-Acid						
Battery Voltage Per Kit [V]	51.2						
Max.Charging Power[W]	3000	3680	4000	4600	5000	6000	8000
Max.Charging/Discharging Current[A]	69/69	82/82	91/91	105/105	115/115	140/140	160/160
AC Intput[On-grid]							
Max. Intput Power[VA]	6000	7360	8000	9200	10000	12000	16000
Rated Intput Current[A]	27.3	33.5	36.4	41.8	45.5	54.5	72.7
Rated Intput Voltage[v]	220/230/240, L/N/PE						
Rated Grid Frequency[Hz]	50/60						
AC Output[On-grid]							
Rated Output Power[W]	3000	3680	4000	4600	5000	6000	8000
Max.Output Power[VA]	3300	3680	4400	4600	5500	6600	8800
Rated Output Current[A]	13.6	16.7	18.2	20.9	22.7	27.3	36.4
Max.Output Current[A]	15.2	16.7	20.2	20.9	25.3	30.3	40.4
Rated Output Voltage[V]	220/230/240, L/N/PE						
Rated Grid Frequency[Hz]	50/60						
Power Factor[cosφ]	0.8leading~0.8lagging						
Output THDi (@Rated output)	< 3						
AC Output[Back-up]							
Rated Output Power[W]	3000	3680	4000	4600	5000	6000	8000
Max.Output Current[A]	13.6	16.7	18.2	20.9	22.7	27.3	36.4
Rated Output Voltage[V]	220/230/240, L/N/PE						
Rated Output Frequency[Hz]	50/60						
Output THDv (@Liner load)	< 3						
Switch Time[ms]	< 20						
Efficiency							
Max INV Efficiency	97.80%						
European Efficiency	97.20%						
Protection							
DC switch	Yes						
Protection	Battery Input Reverse Polarity Protection / AC Short Circuit Protection / Overload Protection / Surge Protection / Residual Current Protection / AC Overvoltage/Undervoltage Protection / AC Overfrequency / Underfrequency Protection / Over Temperature Protection / Anti-Islanding Protection						
General Data							
Topology	Transformerless						
Ingress Protection	IP65						
Operating Temperature Range	-20~60°C						
Ambient Humidity	2000m (> 2000m Power Derating)						
Altitude	0~100%						
Noise	< 25dB						
Cooling Method	Natural Convection						
Dimensions[H*W*D]	450*500*210mm						
Weight	25Kg						
EMC&Safety Standards	IEC 62109-1/2, IEC 62040-1&EN 61000-6-1, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12						
Grid Standards	VDE-AR-N 4105, VDE V 0126-1-1, AS/NZS 4777, CEI 0-21, G98/G99, EN50549,UNE 206 007-1, C10/11, NTS 631, NRS097-2-1						

UHC Series 4~12KW-U2 Three Phase Hybrid Inverter



UHC-4~12KT-U2 suit household and small commercial applications. Hybrid and AC-coupled solution provide flexible options for both new and retrofit systems, with the feature of Max.10 units, inverter in parallel, offering a solution for small commercial project.

All of them ensure the most efficient use of solar energy at home, increase self-consumption and grid independence, reduce your electricity bills.



Leading Technology

- Max. 18A PV input current per string
- Less than 10ms UPS-level switching
- 98.2% max. efficiency



High Performance

- Up to 110% unbalanced load
- 150% DC oversizing
- LCD touch screen design



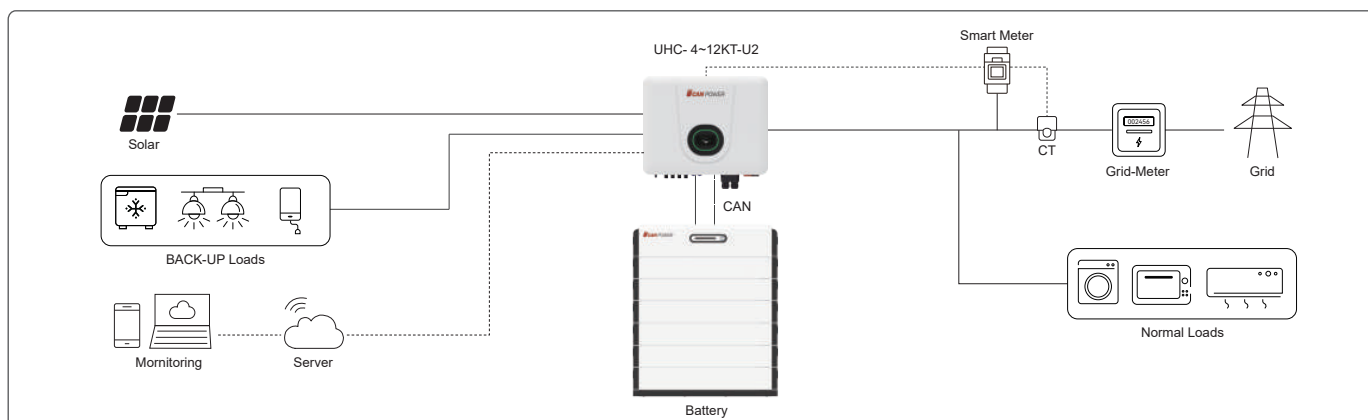
High Reliability

- IP65 protection degree
- Compact and elegant design with integrated diecasting technology
- Long-term efficient operation with advanced heat dissipation design



User-Friendly

- Easy installation and O&M with horizontal design and quick plug terminals
- Easy data check via both LCD display and App
- Ideal for residential application with low operating noise



Model	UHC-4KT-U2	UHC-5KT-U2	UHC-6KT-U2	UHC-8KT-U2	UHC-10KT-U2	UHC-12KT-U2
PV Input Data						
Max. PV power	6000W	7500W	9000W	12000W	15000W	18000W
Max. DC voltage	1000V					
Start-up voltage	135V					
MPPT voltage range	120~960V					
Rated DC voltage	600V					
No. of MPP trackers	2			4		
No. of string per MPP tracker	1/1			1/1/1/1		
Max. input current	18A/18A			18A/18A/18A/18A		
Max. short current	25A/25A			25A/25A/25A/25A		
Battery Input Data						
Battery type	Li-Ion(LFP)					
No. of battery input	1			2		
Battery voltage range	135~750V					
Max. charge/discharge power	4000W	5000W	6000W	8000W	10000W	12000W
Max. charge/discharge current	25A			25A/25A		
Communication	CAN					
AC Output Data (On-grid)						
Rated AC power	4000W	5000W	6000W	8000W	10000W	12000W
Max. AC power output to grid	4400VA	5500VA	6600VA	8800VA	11000VA	13200VA
Max. AC power from grid	8000VA	10000VA	12000VA	16000VA	20000VA	24000VA
Max. AC current output to grid	6.6A	8.3A	10A	13.3A	16.7A	20A
Max. AC Current from grid	12.1A	15.2A	18.2A	24.2A	30.3A	36.4A
Rated grid voltage	3/N/PE, 220/380V, 230/400V					
Grid voltage range	184V~276V					
Rated grid frequency	50/60Hz					
Output power factor	~1(0.8 leading to 0.8 lagging)					
Output THDi (@Rated output)	<3%					
AC Output Data (Back-up)						
Rated output power	4000W	5000W	6000W	8000W	10000W	12000W
Max. output power	4400W	5500VA	6600VA	8800VA	11000VA	13200VA
Peak output power, Duration	8000VA, 60s	10000VA, 60s	12000VA, 60s	16000VA, 60s	20000VA, 60s	20000VA, 60s
Max. output current	6.6A	8.3A	10A	13.3A	16.7A	20A
Rated output voltage	3/N/PE, 220/380Vac, 230/400Vac					
Rated output frequency	50/60Hz					
Output THDv (@Liner load)	<3%					
Switch time	<10ms					
Efficiency						
Max. efficiency	98.1%	98.1%	98.1%	98.2%	98.2%	98.2%
Euro efficiency	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%
Protection						
DC switch	Yes					
Protection	PV reverse polarity protection / Output over current protection / Output over voltage protection / Anti-islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection					
Surge protection level	PV: Type II, AC:Type III					
General Data						
Dimension	500*450*180mm			570*450*200mm		
Weight	32kg			37.5kg		
Inverter topology	Transformerless					
Standby self consumption	<15W					
Operating temperature range	-30℃~60℃					
Relative humidity	0~100%					
Operating altitude	<3000m					
Cooling	Natural					
Protection degree	IP65					
Display	LCD					
Communication	CAN, RS485, WiFi/LAN (Optional)					
Standard warranty	Standard 5 years					
Certificates						
EMC	IEC/EN 61000-6-1/-3					
Safety	IEC/EN 62109-1/-2, IEC62477-1					
Grid	EN50549-1, IEC 62116, VDE-AR-N-4105, CEI 0-21, C10/11, G98 or G99, UTE C15-712, NRS 097-2-1, OVE-directive R25:2020-03, NTS 631					

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UHC Series 15~20KW-U2 Three Phase Hybrid Inverter

UHC-15~20KT-U2 suit small commercial applications. Hybrid and AC-coupled solution provide flexible options for both new and retrofit systems, with the feature of Max.10 units inverter in parallel, offering a solution for small commercial project.

All of them ensure the most efficient use of solar energy locally, increase self-consumption and grid independence, reduce your electricity bills.



Leading Technology

- Max. 18A PV input current per string
- Less than 10ms UPS-level switching
- Max. 25A battery charge/discharge current



High Reliability

- IP65 protection degree
- Compact and elegant design with integrated diecasting technology
- Long-term efficient operation with advanced heat dissipation design



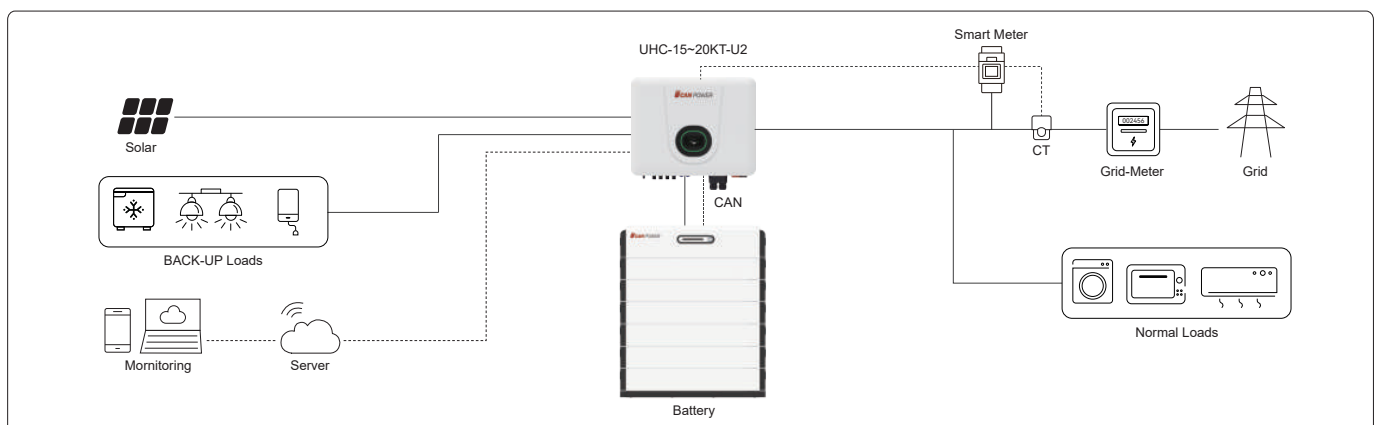
High Performance

- Up to 110% unbalanced load
- 150% DC oversizing
- LCD touch screen design



User-Friendly

- Easy installation and O&M with horizontal design and quick plug terminals
- Easy data check via both LCD display and App
- Easy wifi configuration via APP



Model	UHC-15KT-U2		UHC-20KT-U2	
PV Input Data				
Max. PV power	22500W		30000W	
Max. DC voltage			1000V	
Start-up voltage			135V	
MPPT voltage range			120~960V	
Rated DC voltage			600V	
No. of MPP trackers			4	
No. of string per MPP tracker			1/1/1/1	
Max. input current			18A/18A/18A/18A	
Max. short current			25A/25A/25A/25A	
Battery Input Data				
Battery type			Li-Ion(LFP)	
No. of battery input			2	
Battery voltage range			135~750V	
Max. charge/discharge power	15000W		20000W	
Max. charge/discharge current			25A/25A	
Communication			CAN	
AC Output Data (On-grid)				
Rated AC power	15000W		20000W	
Max. AC power output to grid	16500VA		22000VA	
Max. AC power from grid	30000VA		30000VA	
Max. AC current output to grid	25A		33.3A	
Max. AC Current from grid	45.5A		45.5A	
Rated grid voltage			3/N/PE, 220/380V, 230/400V	
Grid voltage range			184~276V	
Rated grid frequency			50/60Hz	
Output power factor			~1(0.8 leading to 0.8 lagging)	
Output THDi (@Rated output)			<3%	
AC Output Data (Back-up)				
Rated output power	15000W		20000W	
Max. output power	16500VA		22000VA	
Peak output power, Duration			25000VA, 60s	
Max. output current	25A		33.3A	
Rated output voltage			3/N/PE, 220/380V	
Rated output frequency			50/60Hz	
Output THDv (@Liner load)			<3%	
Switch time			<10ms	
Efficiency				
Max. efficiency			98.4%	
Euro efficiency			97.5%	
Protection				
DC switch			Yes	
Protection			PV reverse polarity protection / Output over current protection / Output over voltage protection / Anti-islanding protection / Residual current detection / Insulation resistor detection / Battery reverse protection	
Surge protection level			PV: Type II, AC:Type III	
General Data				
Dimension			570*450*200mm	
Weight			38.5kg	
Inverter topology			Non-isolated	
Standby self consumption			<15W	
Operating temperature range			-30℃~60℃	
Relative humidity			0~100%	
Operating altitude			<3000m	
Cooling			Fan	
Protection degree			IP65	
Display			LCD	
Communication			CAN, RS485, WiFi/LAN (Optional)	
Standard warranty			Standard 5 years	
Certificates				
EMC			IEC/EN 61000-6-1/-3	
Safety			IEC/EN 62109-1/-2, IEC62477-1	
Grid			EN50549-1, IEC 62116, VDE-AR-N-4105, CEI 0-21, C10/11, G98 or G99, UTE C15-712, NRS 097-2-1, OVE-directive R25:2020-03, NTS 631	

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Ucanpower, Bring Energy to Life!



ULB-5120MT Low Voltage Battery System

ULB series is a low voltage battery that offers multiple energy storage options through an expandable modular design (1-4 modules combined), which further simplifies installation and O&M with multiple smart functions. The safest battery cell technology (LFP) comes with a high charging rate, ensuring superior performance.



Support 1C charge and discharge rate.



Flexible capacity options, 5.12kWh to 20.48kWh



Easy installation with modular and stacked design



Remote diagnosis and real-time data monitoring

Upower Electric Co., Ltd

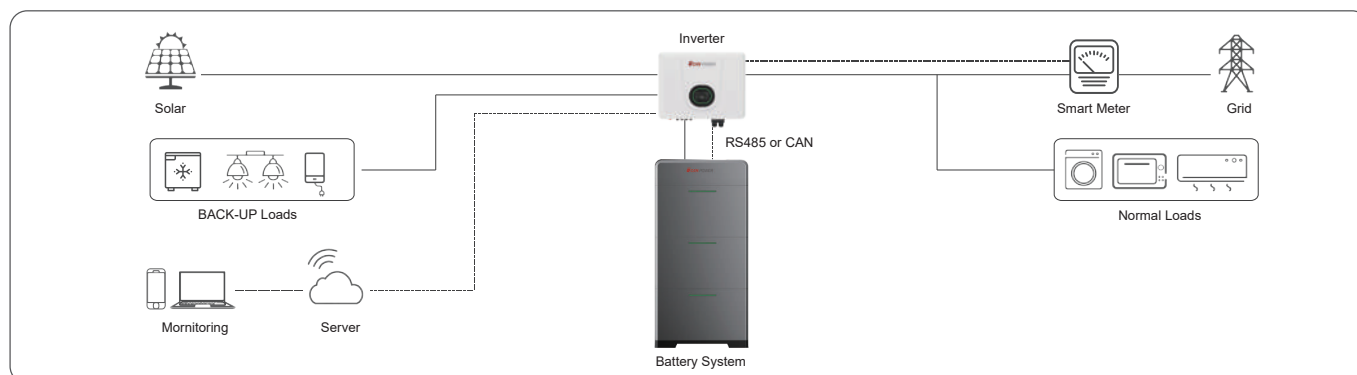
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Model	ULB-5120MT			
System Structure				
System Structure				
System Parameters				
Number of battery	1	2	3	4
Battery capacity (kWh)	5.12	10.24	15.35	20.48
Usable energy (kWh)	4.6	9.22	13.82	18.43
Rated capacity (Ah)	100			
Rated voltage (V)	51.2			
Voltage range (V)	44.8~57.6			
Max. charge and discharge rate	1C			
Cycle times	80% DOD, cycles>6000, residual capacity>70%			
Communication	RS485/CAN 2.0			
Protection function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit			
Dimension (mm)	675*200*620	675*200*985	675*200*1350	675*200*1715
Weight (kg)	70	124	178	232
Working Conditions				
Installation	Indoor			
Operating temperature	0℃~50℃ (Charge) / -10℃~50℃ (Discharge)			
Optimum working temperature	20℃~30℃			
Storage temperature	-15℃~60℃			
Humidity	5%-95%			
Cooling strategy	Natural			
Enclosure protection rating	IP65			
Altitude (m)	<2000			
Certificate	UN38.3, IEC 62619, UL9540, UL1973			

Information may be subject to change without notice during product improving



UCanPower, Bring Energy to Life!



UHB-50 High Voltage Battery System

UHB-50 series is a high voltage battery that offers multiple energy storage options through an expandable modular design (3-10 modules combined), which further simplifies installation and O&M with multiple smart functions.

The safest battery cell technology (LFP) comes with a high charging rate, ensuring superior performance.



Original battery active balance technology



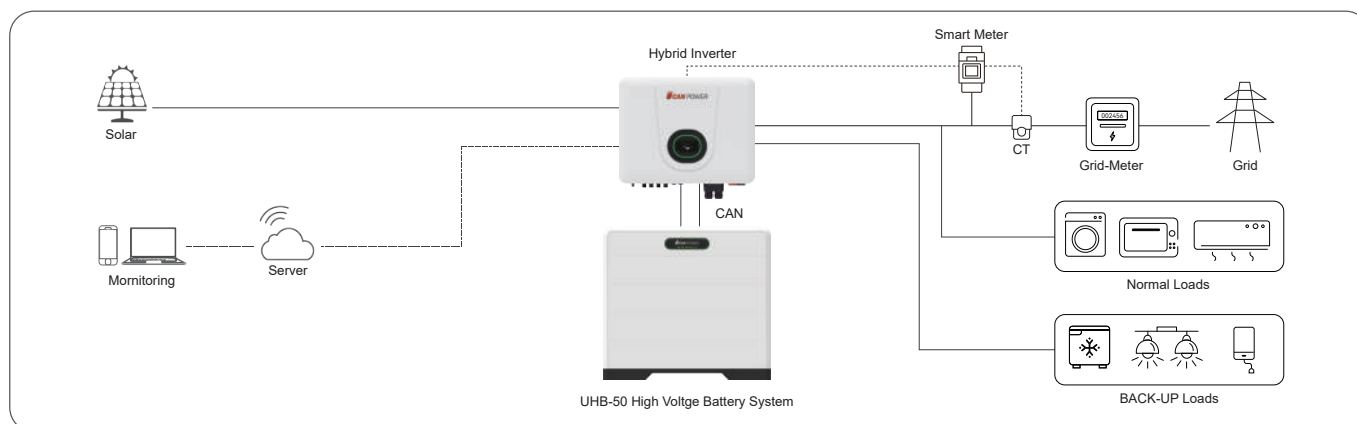
Flexible capacity options, 7.68kWh to 25.6kWh



Easy installation with modular and stacked design



Remote diagnosis and real-time data monitoring

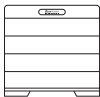
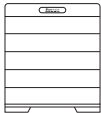
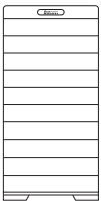


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Model	UHB-50							
	T3	T4	T5	T6	T7	T8	T9	T10
								
NO. of series battery	3	4	5	6	7	8	9	10
Rated energy (kWh)	7.68	10.24	12.8	15.36	17.92	20.48	23.04	25.6
Usable energy (kWh)	6.9	9.2	11.52	13.8	16.13	18.4	20.7	23
Rated voltage(V)	153.6	204.8	256	307.2	358.4	409.6	460.8	512
Voltage range(V)	134.4~172.8	179.2~230.4	224~288	268.8~345.6	313.6~403.2	358.4~460.8	403.2~518.4	448~576
Rated capacity(Ah)	50							
Charge current(A)	25 (Recommended) /50 (MAX)							
Discharge current(A)	25 (Recommended) /50 (MAX)							
Cycle times	80% DOD, cycles>6000, residual capacity>60%							
Communication	RS485/RS232/CAN 2.0							
Protection function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit							
Size [W x D x H, mm]	892*200*665	892*200*815	892*200*965	892*200*1115	892*200*1265	892*200*1415	892*200*1565	892*200*1715
Weight [kg]	104	136	168	200	232	264	296	328
Working Conditions								
Installation	Indoor							
Working temperature	0°C~50°C (Charge) / -10°C~50°C (Discharge)							
Optimum working temperature	20°C~30°C							
Storage temperature	-30°C~60°C							
Protection degree	IP20							
Humidity	5%-95%							
Altitude	≤2000							
Cooling	Natural							
Certificate	CE, CB, UN38.3, MSDS							

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