

Ucanpower, Bring Energy to Life!

CAN POWER

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



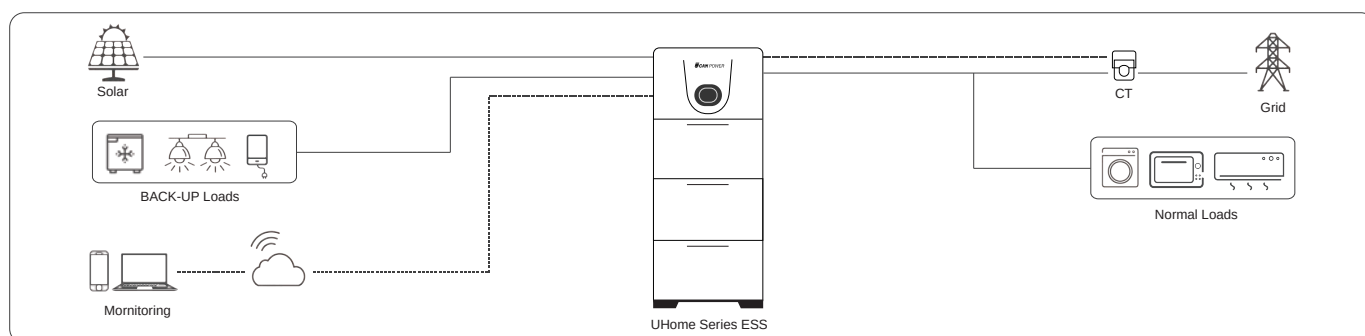
High Reliability

- 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℃~50℃ (Charging) / -15℃~50℃ (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							

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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

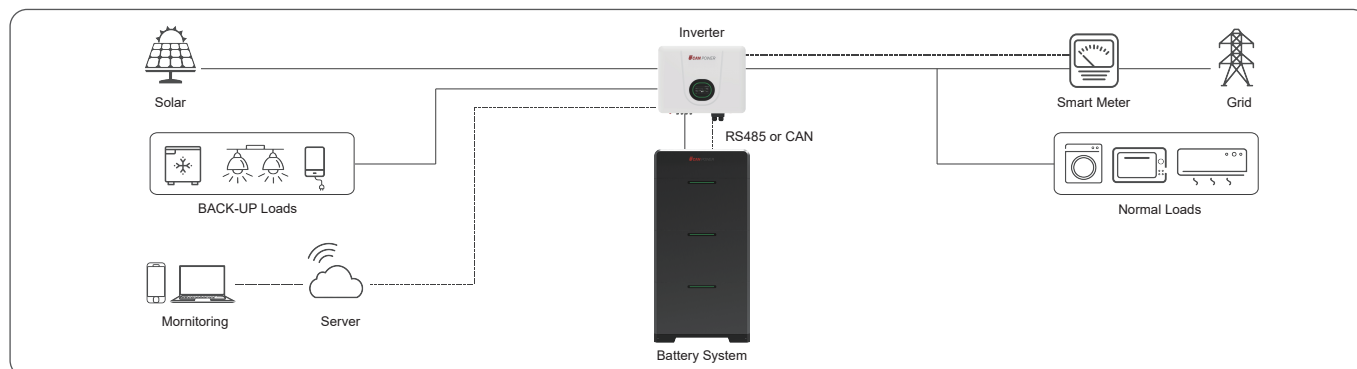
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Model	ULB-5120MT			
System Structure				
System Structure				
System Parameters				
Number of battery	1	2	3	4
Battery capacity (kWh)	5.12	10.24	15.35	20.48
Usable energy (kWh)	4.6	9.22	13.82	18.43
Rated capacity (Ah)	100			
Rated voltage (V)	51.2			
Voltage range (V)	44.8~57.6			
Max. charge and discharge rate	1C			
Cycle times	80% DOD, cycles>6000, residual capacity>80%			
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	UL9540, UL9540A, UL1973			

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UHC Series 4~12KW Three Phase Hybrid Inverter



UHC - 4~12KT 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. 15A PV input current per string
- Less than 10ms UPS-level switching
- 98.2% max. efficiency



High Reliability

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



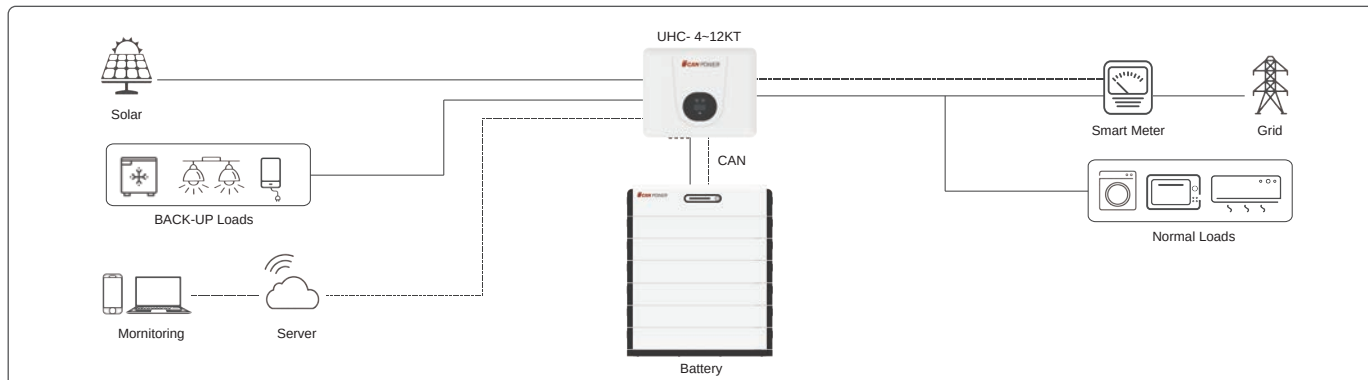
High Performance

- Up to 110% unbalanced load
- Max. 200% back-up output overloading @60s
- Parallel operation with max. 10 units



User-Friendly

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



Model	UHC-4KT	UHC-5KT	UHC-6KT	UHC-8KT	UHC-10KT	UHC-12KT
PV Input Data						
Max.PV power	6000W	7500W	9000W	12000W	15000W	18000W
Max. DC voltage	1000V					
Start-up voltage	135V					
MPPT voltage range	120~950V	120~950V	120~950V	200~950V	200~950V	200~950V
Rated DC voltage	620V					
No. of MPP trackers	2					
No. of string per MPP tracker	1/1					
Max. input current	15A/15A					
Max. short current	20A/20A					
Battery Input Data						
Battery type	Li-Ion(LFP)					
Battery voltage range	135~750V					
Max. charge power	4000W	5000W	6000W	8000W	10000W	12000W
Max. charge/discharge current	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	16500VA	16500VA
Max. AC current output to grid	6.7A	8.3A	10A	13.3A	16.5A	20A
Max. AC current from grid	11.6A	14.5A	17.4A	23.2A	23.9A	23.9A
Rated grid voltage	3/N/PE, 220/380V, 230/400V, 240/415V					
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	16500VA, 60s	16500VA, 60s
Max. output current	6.7A	8.3A	10A	13.3A	16.5A	20A
Rated output voltage	3/N/PE, 220/380V, 230/400V, 240/415V					
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	550×435×210mm					
Weight	26kg					
Inverter topology	Non-isolated					
Standby self consumption	<15W					
Operating temperature range	-30℃~60℃					
Relative humidity	0~100%					
Operating altitude	<3000m					
Cooling	Natural					
Protection degree	IP65					
Display	LCD&LED					
Communication	RS485, Optional: WiFi/LAN					
Standard warranty	Standard 5 years					
Certificates						
EMC	EN61000					
Safety	IEC62109-1, IEC62109-2					
Grid	EN50549-1, IEC 62116, VDE-AR-N-4105, CEI 0-21, C10/11					

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UHC Series 15~20KW Three Phase Hybrid Inverter

UHC-15~20KT 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. 15A PV input current per string
- Less than 10ms UPS-level switching
- Max. 40A 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



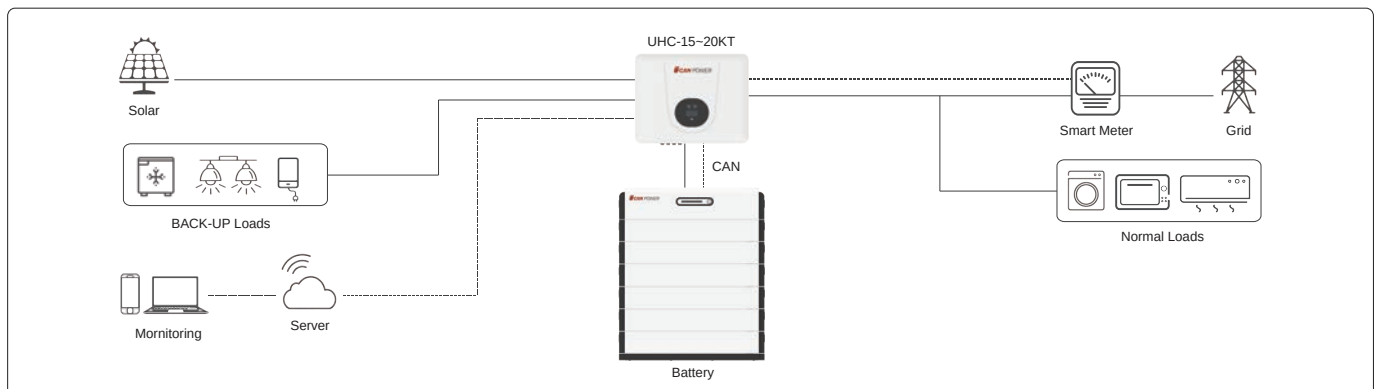
High Performance

- Up to 110% unbalanced load
- Max. 200% back-up output overloading @60s
- Parallel operation with max. 10 units



User-Friendly

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



Model	UHC-15KT	UHC-20KT
PV Input Data		
Max.PV power	22500W	30000W
Max. DC voltage	1000V	
Start-up voltage	135V	
MPPT voltage range	200~950V	
Rated DC voltage	620V	
No. of MPP trackers	2	
No. of string per MPP tracker	2/2	
Max. input current	30A/30A	
Max. short current	40A/40A	
Battery Input Data		
Battery type	Li-Ion(LFP)	
Battery voltage range	135~750V	
Max. charge power	15000W	20000W
Max. charge/discharge current	40A/40A	
Communication	CAN	
AC Output Data (On-grid)		
Rated AC power	15000W	20000W
Max. AC output to grid	16500VA	22000VA
Max. AC power from grid	30000VA	30000VA
Max. AC current output to grid	25A	33.5A
Max. AC current from grid	43.5A	43.5A
Rated grid voltage	3/N/PE, 220/380V, 230/400V, 240/415V	
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	25000VA, 60s
Max. output current	25A	33.5A
Rated output voltage	3/N/PE, 220/380V, 230/400V, 240/415V	
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	550×435×211mm	
Weight	31kg	
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&LED	
Communication	RS485,Optional:WiFi/LAN	
Standard warranty	Standard 5 years	
Certificates		
EMC	EN61000	
Safety	IEC62109-1, IEC62109-2	
Grid	EN50549-1, TOR Generator Type A, VDE-AR-N-4105, CEI 0-21, UNE 206006, UNE206 007-1	

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UHB High Voltage Battery System

UHB-50Ah 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

Upower Electric Co., Ltd

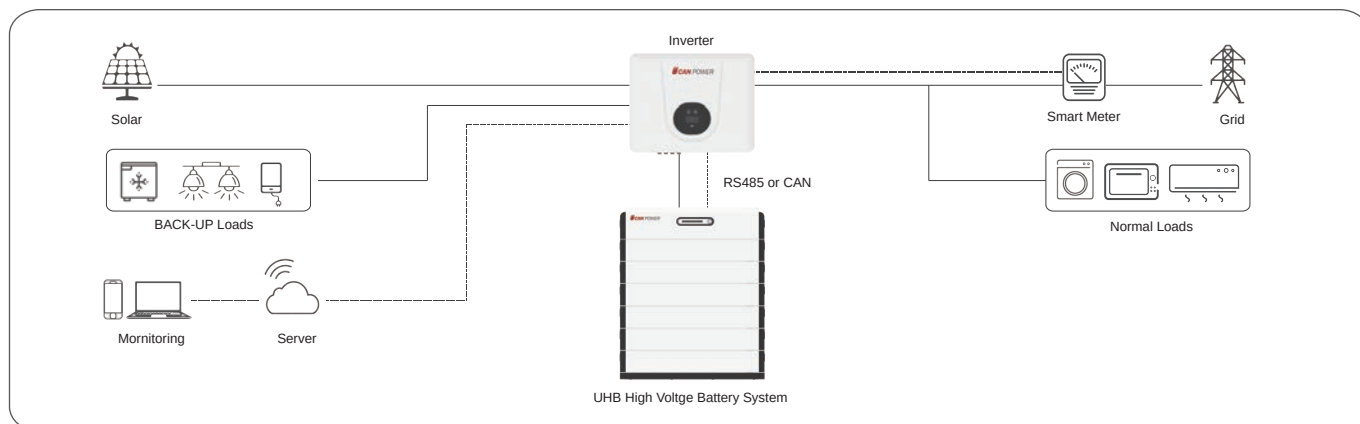
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Model	UHB768	UHB1024	UHB1280	UHB1536	UHB1792	UHB2048	UHB2304	UHB2560
Electrical Parameters								
NO. of series battery	3	4	5	6	7	8	9	10
Rated energy (kWh)	7.68	10.24	12.8	15.36	17.92	20.48	23.04	25.6
Usable energy (kWh)	6.9	9.2	11.52	13.8	16.13	18.4	20.7	23
Rated power	3.84	5.12	6.4	7.68	8.96	10.24	11.52	12.8
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>10000, 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]	851*255*488	851*255*618	851*255*748	851*255*878	851*255*1008	851*255*1138	851*255*1268	851*255*1398
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	-15°C~60°C							
Protection degree	IP20							
Humidity	5%-95%							
Altitude	≤2000							
Cooling	Natural							
Certificate	CE, CB, UN38.3, MSDS							

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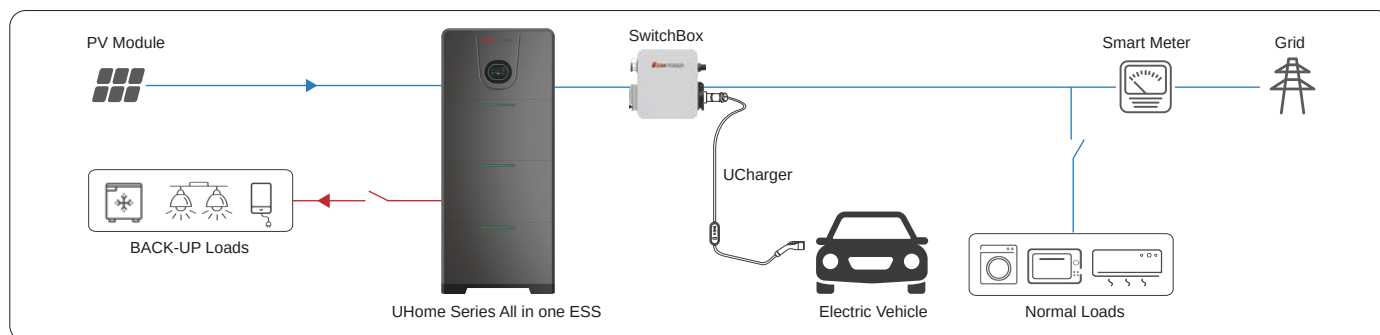
CAN POWER

Residential Energy Storage, EV Charging Integrated Systems

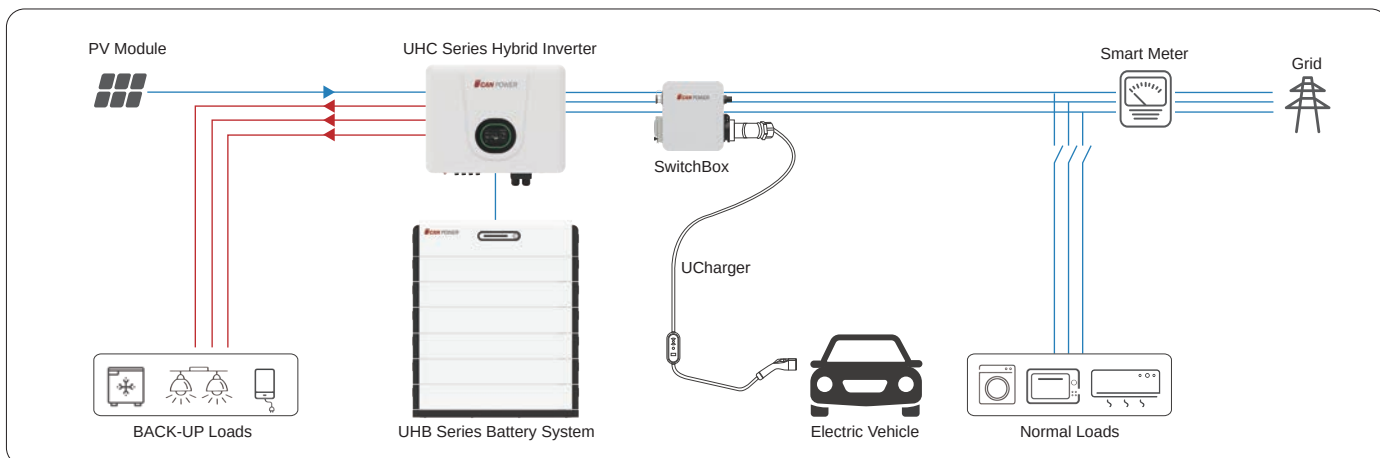
The energy storage system is perfectly matched with the UCharger and SwitchBox. Supports scheduled charging, start to charge when the sunlight is good or the electricity price is cheap. Increase the self-use rate of PV and reduce electricity bills.

- High current design, more efficient charging
Maximum charging current 32A, maximum charging power 22kW.
- easy to carry and install
Stylish appearance, lightweight design, compact and easy to carry.
- High protection level
The charging gun is IP55, the SwitchBox IP56 design, it can withstand complex environment.
- Plug and play, easy to charge cars
Simple operation, plug in to charge, no complex operation required.

Single phase Energy Storage and EV Charging Integrated System



Three phase Energy Storage and EV Charging Integrated System



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SwitchBox Series

Switch Box provides a quick transfer solution to achieve rapid and safe connection respectively to grid-tied and EV charging wires as well as enhancing circuit break protection at the EV charging end to make charging faster. The box can also be plugged and unplugged with the charging gun by a tailor-made aviation connector to increase the current bearing ability and achieve rapid and safe charging.



Model	SwitchBox-16AS	SwitchBox-32AS	SwitchBox-16AT	SwitchBox-32AT
Phase	230Vac (L+N+PE)		230Vac (3L+N+PE)	
AC Input (Grid)				
Input Voltage	230V		380V	
Input Current	64A			
AC Oputut (Inverter)				
Output Voltage	230V		380V	
Output Current	32A			
AC Output (U Charger)				
Output Voltage	230V		380V	
Output Current	16A	32A	16A	32A
Dimension [W x H x D]	220*250*120mm			

UCharger Series

UCharger is a fast charging device for electric vehicles. It perfectly integrates the charger with the charging gun and is safe and convenient to use.

At the same time, UCharger can be perfectly integrated into the residential energy storage system launched by UPOWER to achieve the integration of home energy storage and charging.



Model	UCharger-16AS	UCharger-32AS	UCharger-16AT	UCharger-32AT
Charging Standard	IEC62196 / SAEJ17721GB / T20234			
Phase	Single phase		Three phase	
Rated Current	Default16A (Adjustable 8A/10A/13A)	Default32A (Adjustable 10A/13A/16A/20A)	Default16A (Adjustable 8A/10A/13A)	Default32A (Adjustable10A/13A/16A/20A)
Output Power	Max.3.8KW	Max.7.6KW	Max.11KW	Max.22KW
Input&Output Voltage	85~264V AC		85-415V AC	
Input Frequency	50-60Hz			
Operating Temperature	-20℃~70℃			
Insulation Resistance	>1000MΩ (DC500V)			
Contact Resistance	0.5MΩ			
Housing Fire Rating	UL94V-0			
Length Of Cable	5 Meter(16.5feet)or customized			

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