





UCanPower, Bring Energy to Life!







HYBRID SOLAR ENERGY STORAGE SYSTEM SOLUTIONS

All in One ESS | Hybrid Inverter | Battery System

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15,000m²
Production Area

200,000Sets
Annual Production Capacity



Who is UCanPower ?

40%
Percentage of Engineers

15+
Industry Experience

Upower Electric Co., Ltd has been a leading supplier of solar energy storage systems and solutions worldwide for many years. Our primary brand, UCANPOWER, focuses on providing cost-effective and purpose-built solutions for the residential and small commercial solar ESS market.

We envision a future where solar power is widely utilized by both homes and commercials. Our top of the line inverters are designed to be plug and play for effortless installation and have a modular design that allows for easy assembly of large energy storage systems using small ESS modules.

All-in-One ESS



Single Phase All-in-One ESS
UHome 3~8kW / 5.12~40.96kWh



Three Phase All-in-One ESS
UHome 8~20KT / 5.12~40.96kWh

Hybrid Inverter



Single Phase Hybrid Inverter
UHC-3~8KS



Three Phase High Voltage Hybrid Inverter
UHC-4~6KT-U2



Three Phase High Voltage Hybrid Inverter
UHC-8~20KT-U2

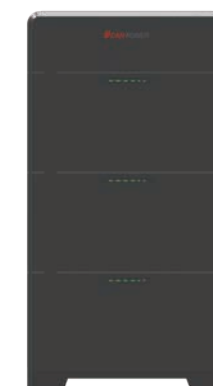


Three Phase Low Voltage Hybrid Inverter
UHC-6~20KT-LV

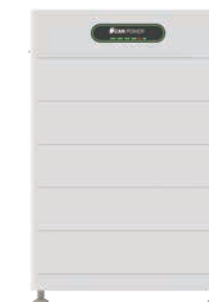
Battery System



High Voltage Battery System
UHB-2560



High Voltage Battery System
UHB-5120MT



High Voltage Battery System
UHB-100



Low Voltage Battery System
ULB-5120MT



Low Voltage Battery System
EB-1608

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



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 / WiFi							
Operating altitude	≤ 3000m(>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

Inverter								
Model	UHome-3K0L	UHome-3K6L	UHome-4K0L	UHome-4K6L	UHome-5K0L	UHome-6K0L	UHome-8K0L	
Rated battery voltage	51.2V	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	1/1	1/2
Input current	14/14A	14/14A	14/14A	14/14A	14/14A	14/14A	14/28A	
Max. input current	16/16A	16/16A	16/16A	16/16A	16/16A	16/16A	16/32A	
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	28.7A	38.3A	
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*D*H, mm]	675*200*415							

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*D*H, mm]	675*200*365





Certificate	
EMC	EN61000-6-11-3
Safety	IEC62109-1, IEC62109-2
Grid	EN50549-1, VDE-AR-N-4105 VDE0124 NCR+G UTE and VFR 2019, CEI 0-21, C10/11, NRS097-2-1, G98&G99, NTS-631 TYPE A








Note: When using more than 4 battery modules, you need to add a controller box to connect to other battery modules.

<p>Touch Screen Design for Easier Operation</p>	<p>Modular Design, Wire-free Installation</p>	<p>150%</p> <p>150% PV Input oversizing</p>	<p>5.12~40.96kWh</p> <p>Batteries are stacked in modules</p>
<p>Can be Adapted to Three-phase Smart Meters, More Flexible System Design</p>	<p>Independent fire protection module</p>	<p>Intelligent load management (such as heat pumps, diesel generators)</p>	<p>Support remote software upgrade (OTA)</p>

UHome-KT Series 8~20kW Three Phase All-in-One ESS






 Touch Screen Design for Easier Operation	 Modular Design, Wire-free Installation	4 MPPTs 4 independent MPPTs design to enhance system power generation efficiency	110% Support 110% three-phase unbalanced load output
10.24~40.96kWh Batteries are stacked in modules	18A Max. 18A PV input current per string	 Intelligent load management (such as heat pumps, diesel generators)	 Support remote software upgrade (OTA)

System Parameters								
System Structure								
Inverter Rated output power	4,000-20,000W							
Battery Rated output power	6,000W	9,000W	12,000W	15,000W	18,000W	21,000W	24,000W	
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°C~50°C (charging) / -10°C~50°C (discharging)							
Noise	<25dB							
Humidity	0-100%							
Communication	RS485/WiFi							
Enclosure protection rating	IP65							
Operating altitude	≤ 3000m(>3000m Power Derating)							
Weight	154.4kg	208.6kg	262.8kg	317kg	171.2kg	425.4kg	479.6kg	
Dimension [W*D*H, mm]	770*200*1300	770*200*1685	770*200*2070	770*200*1685 770*200*1010	770*200*1685 770*200*1395	770*200*1685 770*200*1780	770*200*2070 770*200*1780	
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							
Max. charge/discharge current	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							
Start-up voltage	135V							
Rated PV input voltage	600V							
MPPT voltage range	120-960V							
No. of MPP trackers	2			4				
No. of string per MPP tracker	1/1			1/1/1/1				
Max. PV 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	10.0A	13.3A	16.7A	20A	25A	33.3A
Rated output voltage	3L/N/PE, 220/380V, 230/400V							
Rated frequency	50/60Hz							
THDv	< 3%							
Switch time	<10ms							
Cooling strategy	Natural						Fan	
Inverter topology	Non-isolated							
Max. efficiency	98.2%							
Euro efficiency	97.5%							
Weight	50.5kg							
Dimension [W*D*H, mm]	770*200*470							
Battery Module								
Battery type	Li-ion (LFP)							
Rated battery voltage	409V							
Battery voltage range	320~467V							
Capacity	5.12kWh							
Standard charging current(A)	7.5							
Max. discharging current(A)	12.5							
Cut-off Charging voltage(V)	320							
Rated output power(W)	3000							
Weight	54.2kg							
Dimension [W*D*H, mm]	770*200*385							

UHC-KS Series 3~8kW Single Phase Hybrid Inverter






 Touch Screen Design for Easier Operation	80V Starts at 80V for more generation time	18A Max. 18A PV input current per string	150% 150% PV input oversizing
110% Continuous 110% AC overloading sustains power	97.8% 97.8% max. Efficiency	 Intelligent load management (such as heat pumps, diesel generators)	 Support remote software upgrade (OTA)

Model	UHC-3KS	UHC-3K6S	UHC-4KS	UHC-4K6S	UHC-5KS	UHC-6KS	UHC-8KS
PV Input							
Max. PV input Power	4500	5400	6000	6900	7500	9000	12000
Max. DC Input Voltage	550V						
Rated DC Voltage	360V						
Start-up Voltage	60V						
MPPT Voltage Range	80-550V						
No. of MPP trackers	2						
No. of string per MPP tracker	1+1						1+2
Max. DC Input Current	18A/18A						18/36
Max. DC Short Current	20A/20A						20/40
Battery							
Battery Type	LiFePO ₄ /Lead-Acid						
Battery Voltage Range	44.0-58.4 @ LiFePO ₄ 40.0-60.0 @ Lead-Acid						
Battery Voltage Per Kit	51.2V						
Max.Charging Power	3000W	3680W	4000W	4600W	5000W	6000W	8000W
Max.Charging/Discharging Current	69A/69A	82A/82A	91A/91A	105A/105A	115A/115A	140A/140A	160A/160A
AC Input[On-grid]							
Max. Input Power	6000VA	7360VA	8000VA	9200VA	10000VA	12000VA	16000VA
Rated Input Current	27.3A	33.5A	36.4A	41.8A	45.5A	54.5A	72.7A
Rated Input Voltage	220V/230V/240V, L/N/PE						
Rated Grid Frequency	50/60Hz						
AC Output[On-grid]							
Rated Output Power	3000W	3680W	4000W	4600W	5000W	6000W	8000W
Max.Output Power	3300VA	3680VA	4400VA	4600VA	5500VA	6600VA	8800VA
Rated Output Current	13.6A	16.7A	18.2A	20.9A	22.7A	27.3A	36.4A
Max.Output Current	15.2A	16.7A	20.2A	20.9A	25.3A	30.3A	40.4A
Rated Output Voltage	220V/230V/240V, L/N/PE						
Rated Grid Frequency	50/60Hz						
Power Factor[cosφ]	0.8leading~0.8lagging						
Output THDi (@Rated output)	<3						
AC Output[Back-up]							
Rated Output Power	3000W	3680W	4000W	4600W	5000W	6000W	8000W
Max.Output Current	13.6A	16.7A	18.2A	20.9A	22.7A	27.3A	36.4A
Rated Output Voltage	220V/230V/240V, L/N/PE						
Rated Output Frequency	50/60Hz						
Output THDv (@Liner load)	<3						
Switch Time[ms]	<20ms						
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	≤3000m(>3000m Power Derating)						
Altitude	0~100%						
Noise	<25dB						
Cooling Method	Natural Convection						
Dimensions[H*W*D]	450*500*210mm						
Weight	25Kg						
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 0-16, CEI 0-21, C10/11, NC R+G G98 or G99, UTE C15-712, NRS 097-2-1, NTS 631						

UHC-KT-U2 Series 4~6kW Three Phase Hybrid Inverter



 Touch Screen Design for Easier Operation	110% Support 110% three-phase unbalanced load output	200% Max. 200% back-up output overloading @60s	18A Max. 18A PV input current per string
20ms Less than 20ms UPS-level switching	98.2% 98.2% max. Efficiency	 Intelligent load management (such as heat pumps, diesel generators)	 Support remote software upgrade (OTA)

Model	UHC-4KT-U2	UHC-5KT-U2	UHC-6KT-U2
PV Input Data			
Max. PV input power	6000W	7500W	9000W
Max. DC voltage		1000V	
Start-up voltage		135V	
MPPT voltage range		120~960V	
Rated DC voltage		600V	
No. of MPP trackers		1/1	
No. of string per MPP tracker		18A/18A	
Max. input current		25A/25A	
Max. short current			
Battery Input Data			
Battery type		Li-ion(LFP)	
No. of battery input			
Battery voltage range		1350~150V	
Max. charge/discharge power	4000W	25A	6000W
Max. charge current		25A	
Max. discharge current			
Communication		CAN	
AC Output Data (On-grid)			
Rated AC power	4000W	5500VA	6000W
Max. AC power output to grid	4400VA	10000VA	6600VA
Max. AC power from grid	8000VA	8.3A	12000VA
Max. AC current output to grid	6.6A	15.2A	10A
Max. AC Current from grid	12.1A		18.2A
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
Max. output power	4400W	5500VA	6600VA
Max. output current	6.6A	8.3A	10A
Rated output voltage		3/N/PE, 220/380Vac, 230/400Vac	
Rated output frequency		50/60Hz	
Output THDv (@Liner load)		<3%	
Switch time		<20ms	
Efficiency			
Max. efficiency	98.1%	98.1%	98.1%
Euro efficiency	97.3%	97.3%	97.3%
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[W*H*D]		500*450*180mm	
Weight		25kg	
Inverter topology		Transformerless	
Standby self consumption		<15W	
Operating temperature range		-30°C~60°C	
Relative humidity		0~100%	
Operating altitude		≤3000m(>3000m Power Derating)	
Cooling		Natural Convection	
Protection degree		IP65	
Display		LCD	
Communication		CAN, RS485, WiFi/LAN	
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 0-16, CEI 0-21, C10/11, NC R+G G98 or G99, UTE C15-712, NRS 097-2-1, NTS 631	

UHC-KT-U2 Series 8~20kW Three Phase Hybrid Inverter



Model	UHC-8KT-U2	UHC-10KT-U2	UHC-12KT-U2	UHC-15KT-U2	UHC-20KT-U2
PV Input Data					
Max. PV input power	12000W	15000W	18000W	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	8000W	10000W	12000W	15000W	20000W
Max. charge current	25A/25A				
Max. discharge current	25A/25A				
Communication	CAN				
AC Output Data (On-grid)					
Rated AC power	8000W	10000W	12000W	15000W	20000W
Max. AC power output to grid	8800VA	11000VA	13200VA	16500VA	22000VA
Max. AC power from grid	16000VA	20000VA	24000VA	30000VA	30000VA
Max. AC current output to grid	13.3A	16.7A	20A	25A	33.3A
Max. AC Current from grid	24.2A	30.3A	36.4A	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	8000W	10000W	12000W	15000W	20000W
Max. output power	8800VA	11000VA	13200VA	16500VA	22000VA
Max. output current	13.3A	16.7A	20A	25A	33.3A
Rated output voltage	3/N/PE, 220/380V, 230/400V				
Rated output frequency	50/60Hz				
Output THDv (@Liner load)	<3%				
Switch time	<20ms				
Efficiency					
Max. efficiency	98.2%	98.2%	98.2%	98.4%	98.4%
Euro efficiency	97.4%	97.4%	97.4%	97.5%	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 [W*H*D]	570*450*200mm				
Weight	34kg		38kg		
Inverter topology	Transformerless				
Standby self consumption	<15W				
Operating temperature range	-30°C~60°C				
Relative humidity	0~100%				
Operating altitude	≤3000m(>3000m Power Derating)				
Cooling	Natural Convection		Smart Fan		
Protection degree	IP65				
Display	LCD				
Communication	CAN, RS485, WIFI/LAN				
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 0-16, CEI 0-21, C10/11, NC R+G G98 or G99, UTE C15-712, NRS 097-2-1, NTS 631				

4 MPPTs

4 independent MPPTs design to enhance system power generation efficiency

2 Bat. Inputs

2 battery input ports for more convenient capacity expansion

6 Parallel

Supports parallel operation of up to 10 machines

18A

Max. 18A PV input current per string

110%

Support 110% three-phase unbalanced load output

50A

Supports up to 50A Max. charging/discharging current





Intelligent load management (such as heat pumps, diesel generators)



Support remote software upgrade (OTA)

UHC 8-20KS-LV Three-Phase Low Voltage Hybrid Inverter





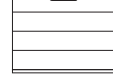
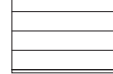
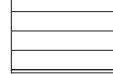
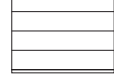
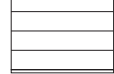
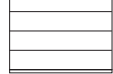
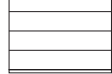
 Colorful touch LCD, IP66 protection degree	<p>20A</p> Max. 20A PV input current	<p>100%</p> 100% unbalanced output, max.output of each phase up to 50% rated power	<p>200%</p> PV input oversizing up to 200%
<p>Parallel</p> Max. 10 pcs parallel for on-grid and off-grid operation Support multiple batteries parallel	<p>350A</p> Max 350A fast charge/discharge current	<p>75A</p> Support whole home backup function with up to 75 A bypass	 Intelligent load management (such as heat pumps, diesel generators)

Model	UHC-8KT-LV	UHC-10KT-LV	UHC-12KT-LV	UHC-14KT-LV	UHC-15KT-LV	UHC-16KT-LV	UHC-18KT-LV	UHC-20KT-LV
DC Input								
Max. PV Array Power [Wp]@ STC	16000	20000	24000	28000	30000	32000	36000	40000
Max. PV Input Power (W)	12800	16000	19200	22400	24000	25600	28800	32000
Max. PV Input Voltage (V)	1000							
MPPT Voltage Range (V)	160-950							
Start-up DC Input Voltage (V)	150							
Rated DC Input Voltage (V)	720							
Max. DC Input Current (A)	40/20				40/40			
Max. DC Short Circuit Current(A)	50/25				50/50			
No. of MPP Trackers/Strings per MPPT	2(2/1)				2(2/2)			
DC Current Injection	Integrated DC switch							
Battery Parameters								
Battery Type	Lead-acid or LiFePO ₄							
Battery Voltage Range (V)	40-60							
Max.Charging/Discharging Current [A]	195	210	240	270	280	320	350	350
Number of Battery Input	2							
Charging Strategy for Li-ion Battery	Self-adaption to BMS							
AC Output [On-grid]								
Rated AC Output Active Power (W)	8000	10000	12000	14000	15000	16000	18000	20000
Max. AC Output Apparent Power (VA)	8800	11000	13200	15400	16500	17600	19800	22000
Rated Output Voltage (Vac)	380/400							
Rated AC Output Current (A)	12.1	15.2	18.2	21.2	22.7	24.2	27.3	30.3
Max. AC Output Current (A)	13.4	16.7	20.1	23.4	25.1	26.7	30.1	33.4
Bypass Current (A)	75							
Power Factor Adjustment Range	0.8 leading to 0.8 lagging							
Rated AC Voltage/Range [V]	3L/N/PE 220/380, 230/400							
Rated Output Frequency/Range [Hz]	50,60/45~55,55~65							
Total Harmonic Distortion [THDi]	<3%							
DC Current Injection	<0.5%In							
AC Output[Back-up]								
Max. AC Output Apparent Power (VA)	8000	10000	12000	14000	15000	16000	18000	20000
Max. AC Output Current (A)	12.2	15.2	18.2	21.3	22.8	24.3	27.3	30.4
Peak Power (Off Grid)	2 times of rated power, 10 S							
Rated AC Voltage/Range [V]	3L/N/PE 220/380, 230/400							
Rated Output Frequency/Range [Hz]	50,60/45~55,55~65							
Switth Time (ms)	< 10							
Total Harmonic Distortion [THDv] (@ Linear Load)	<3%							
System								
MPPT. Efficiency	> 99.9%							
Max. Efficiency	98.0%				98.5%			
Euro Efficiency	97.5%				98.0%			
Noise (dB)	< 55dB							
HMI	LED+LCD							
Communication	CAN, RS485, WIFI/LAN(optional)							
Installation Style	Wall-mounted							
Protection								
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level							
Surge Protection Level	TYPE II(DC), TYPE II(AC)							
Environment								
Protection Degree	IP66							
Cooling	Smart Cooling							
Operating Temperature Range	- 30°C to +65°C (derating above +45°C)							
Operating Humidity	0-100%, non-condensing							
Operating Altitude	4000m (>3000m Power Derating)							
Over Voltage Category	DC Type II/AC Type III							
Mechanical Data								
Cabinet Size (WxHxD mm)	740*470*270							
Weight (kg)	53							
Standard								
Safety Standard	IEC/EN 62109-1/2, EN IEC62040							
EMC Standard	IEC/EN 61000-6-1/2/3/4							
Grid Standard	IEC 62116, EN 50549							

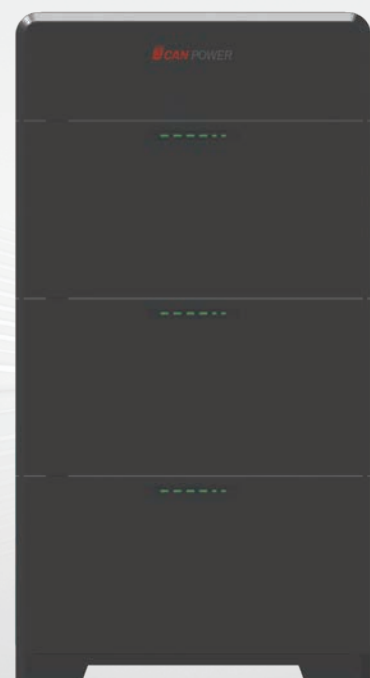
UHB-2560 High Voltage Battery System



 Easy installation with modular and stacked design	<p>50A</p> Supports up to 50A Max. charging/discharging current	<p>7.68~25.6kWh</p> Batteries are stacked in modules
 Cell-level active equalization	 Design of independent fire protection module	 Support remote software upgrade (OTA)

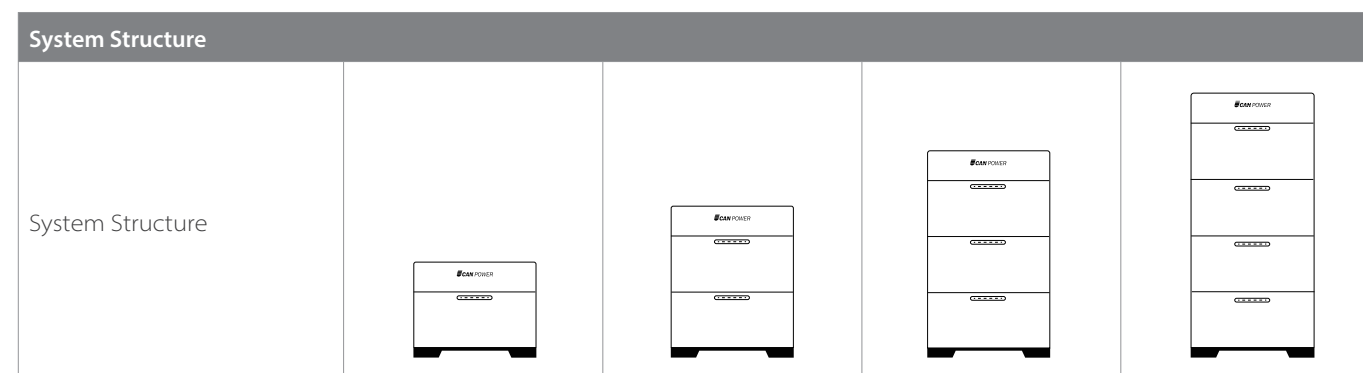
Model	UHB2560							
System Structure								
	T3	T4	T5	T6	T7	T8	T9	T10
System Structure								
Electrical Parameters								
NO. of series battery	3	4	5	6	7	8	9	10
Rated energy (kWh)	7.68	10.24	12.8	15.36	17.92	20.48	23.04	25.6
Usable energy (kWh)	6.9	9.2	11.52	13.8	16.13	18.4	20.7	23
Rated voltage (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>80%							
Communication	RS485/RS232/CAN 2.0							
Protection function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit							
Size [W*D*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	-30°C~60°C							
Protection degree	IP20							
Humidity	5%-95%							
Altitude	≤3000m							
Cooling	Natural							
Certificate	CE, CB, UN38.3, MSDS							

UHB-5120MT High Voltage Battery System



 Easy installation with modular and stacked design	<p>100A</p> Supports up to 100A Max. charging/discharging current	<p>5.12~20.48kWh</p> Batteries are stacked in modules
 Independent fire protection module	<p>IP65</p> IP65 rating, supports outdoor installation	 Support remote software upgrade (OTA)

Model	UHB-5120MT			
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System Parameters




	1	2	3	4
Number of battery module	1	2	3	4
Battery rated output power	3000W	6000W	9000W	12000W
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)	409			
Voltage range (V)	320-467			
Rated Charging current (A)	7.5			
Max Discharging current (A)	12.5			
Depth Of Discharge [DOD]	≤90%			
Cycle Life (25°C, 0.5C)	≥6000 times, 80% Capacity retention			
Communication	RS485/CAN 2.0			
Protection function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit			
Dimension [W*D*H, mm]	770*200*600	770*200*985	770*200*1370	770*200*1755
Weight (kg)	69	123	177	232

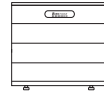
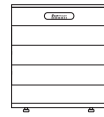
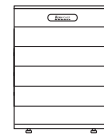

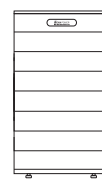

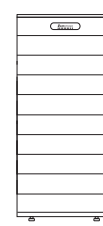
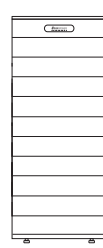
Working Con ditions

Communication Mode	RS485/CAN
Operating Temperature Range	0~50°C (Charge)/-10~50°C(Discharge)
Storage Temperature Range	-15°C~60°C
Cooling Method	Natural Convection
Altitude	≤3000m
Ambient Humidity	0-100% non-condensing
Noise[dBA]	<25
Ingress Protection	IP65

UHB-100 High Voltage Battery System



 Easy installation with modular and stacked design	<p>100A</p> Supports up to 100A Max. charging/discharging	<p>15.36~51.2kWh</p> Batteries are stacked in modules
 Cell-level active equalization	<p>IP54</p> IP54 rating, supports outdoor installation	 Support remote software upgrade (OTA)

Model	UHB-100							
	3S	4S	5S	6S	7S	8S	9S	10S
System Structure								
NO. Of Series Battery	3	4	5	6	7	8	9	10
Rated Energy (kWh)	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2
Usable Energy (kWh)	13.8	18.4	23	27.6	32.2	36.8	41.4	46
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
Battery Type	Li-ion (LFP)							
Battery pack series and parallel connection	1P*16S							
Rated Capacity(Ah)	100							
Charge Current(A)	50A (Rated)/100A (Maximum)							
Discharge Current (A)	50A (Rated)/100A (Maximum)							
Cycle Times	80% DOD, cycles>6000, residual capacity>80%							
Communication	RS-485 / RS-232 / CAN 2.0							
Protection function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit							
Weight (kg)	154.4	199.8	245.2	290.6	336	381.4	426.8	472.2
Dimension [W*D*H, mm]	630*365*674	630*365*813	630*365*952	630*365*1091	630*365*1230	630*365*1369	630*365*1508	630*365*1647
Working Conditions								
Installation	Indoor							
Working temperature	Charge: 0°C~55°C; Discharge: -20°C~55°C							
Optimum working temperature	20°C~30°C							
Storage temperature	20°C~30°C							
Humidity	5%-95% (No condensation)							
Altitude	≤3000m							
Enclosure protection rating	IP54							
Cooling	Natural cooling							
Certificate	CE, CB UN38.3, MSDS							

ULB-5120MT Low Voltage Battery System





Easy installation with modular and stacked design


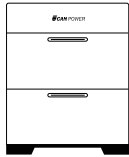
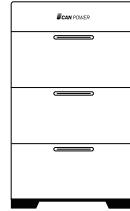
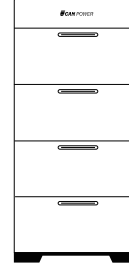
100A
Supports up to 100A Max. charging/discharging current

5.12~20.48kWh
Batteries are stacked in modules


Independent fire protection module

IP65
IP65 rating, supports outdoor installation


Support remote software upgrade (OTA)

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 [W*D*H, mm]	675*200*620	675*200*985	675*200*1350	675*200*1715
Weight (kg)	70	124	178	232
Working Conditions				
Operating temperature	0°C~50°C (Charge) / -10°C~50°C (Discharge)			
Optimum working temperature	20°C~30°C			
Storage temperature	-15°C~60°C			
Humidity	5%-95%			
Cooling strategy	Natural			
Enclosure protection rating	IP65			
Altitude (m)	≤3000m			
Certificate	CE, CB, UN38.3, MSDS			

EB-1608 Series Low Voltage Battery System

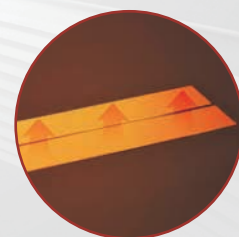
16.08kWh



IP54



Waterproof terminal



Integrated internal heating function (Optional)

Model	EB-1608
Electrical Parameter	
Battery Type	LiFePO ₄
Battery Capacity per Kit [Wh]	16.08kWh
Usable Energy [Wh]	14.47kWh
Rated Voltage [V]	51.2V
Voltage range [V]	44.8V-57.6V
Max. Charging and Discharging Rate	0.5C
Max. Charging and Discharging Current	200A
Depth Of Discharge [DOD]	≤90%
Cycle Life (25°C, 0.5C)	≥6000 times, 80% Capacity retention
Scalability (Parallel)	Max.16 Parallel
Heating Function	Optional (Heating film or external heating sleeve)
Fire Extinguisher	Aerosol Fire Extinguisher
Active Equalization	Cell-level Active Equalization
Remote Monitoring	Optional (WiFi)
General Data	
Communication Mode	RS485/CAN2.0
Operating Temperature Range	0~50°C (Charge)/-10~55°C (Discharge)
Storage Temperature Range	-15°C~60°C
Cooling Method	Natural Convection
Altitude	≤3000m
Ambient Humidity	20-95% non-condensing
Noise[dBA]	<25
Ingress Protection	IP54
Dimensions [H*W*D]	845*450*251mm
Weight	120kg
Installation Methods	Floor Standing



Adapts to multi-brand inverters



Cell-level active equalization

BMS

Multiple electrical protection settings for safer use



Aerosol Fire Extinguisher



LED screen displays the Battery SOC and working status

Max.16 Parallel

Supports parallel use of multiple devices

200A

Supports a Max. charge/discharge current of 200A

IP54

IP54 rating, supports outdoor installation

Smart EV Charger



- Easily integrated into solar storage system
- Compatible with ALL brand EVs
- Charge EVs with renewable energy
- Smart load balancing working mode

Smart Energy Management System



UCanESS is a smart energy management system developed for residential, commercial and industrial application scenarios. Through UCanESS cloud, users can achieve control and intelligent management of system operation and electricity consumption.

Model	UCharger-7KS	UCharger-11KT	UCharger-22KT
AC Power supply	1P+N+PE	3P+N+PE	
Rated Power	7.4kW	11kW	22kW
Rated Voltage	AC 230V,50/60Hz		AC 400V,50/60Hz
Rated Current	32A	16A	32A
Display Screen	3.8-inch LCD screen		
Indicator Light	4 LED lights		
Safety Protection	Over current protection,over voltage protection,under voltage protection,over temperature protection,leakage protection, unconnected PE ground protection etc.		
RCD	TypeA(30mA)+DC 6mA built-in		
Altitude	2000m		
Storage temperature	-40~75°C		
Operation temperature	-30~50°C		
Relative humidity	95%RH, No water droplet condensation		
Vibration	0.5G, No acute vibration and impaction		
Installation location	Indoor or outdoor,good ventilation, no flammable,explosive		
Mounting	Wall-mounted or pole-mounted(mounting pole is optional)		
Product size (H*W*D)	388.45*202.45*96mm	388.45*202.45*107.26mm	
Product Weight (NW)	2.4kg	3.8kg	5kg

- Real time monitoring of the working status of solar energy, power grid, batteries, and loads
- Convenient to query historical data of power generation and consumption
- Remote setting of different device working modes and conditions
- Multi level account management system, more convenient operation and maintenance
- Support grouping multiple devices to form power station management
- Support remote upgrade of targeted or broadcast devices

