

UHC Series 25~50KW Three Phase Hybrid Inverter

UHC-25~50KT suit commercial applications, hybrid and AC-coupled solution provide flexible options for both new and retrofit systems, with the feature of parallel operation from KW to MW level, offering a solution for different commercial projects, all of them ensure the most efficient use of solar energy locally, increase self-consumption and grid independence, reduce your electricity bills.



Optimal Power & Storage

- 98.8% Max. Efficiency
- 30A PV input current, 4 MPP trackers
- 100% Unbalanced Output
- 100A charge/discharge current



Strong Load & Back-up

- 110% continuous AC output overloading
- 120% max. back-up output overloading @60s
- 20ms UPS-level switching
- 150% DC oversizing



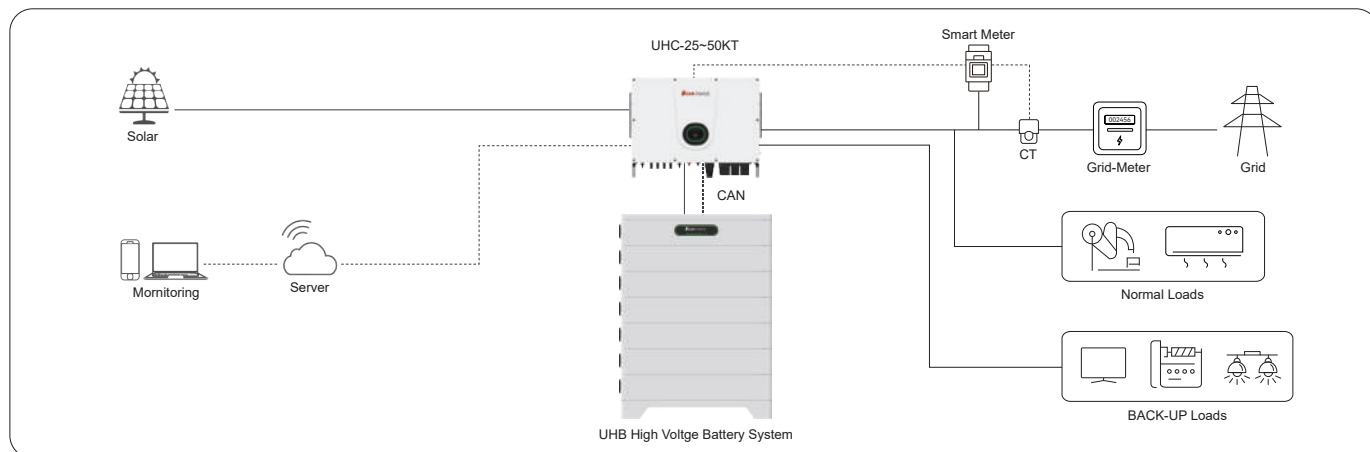
Convenient Installation & Operation

- Plug & Play terminals for easy wiring
- Ucanpower-light, power and alarm indicator
- OLED display and App for setting and data management
- WIFI configuration via App



Flexible Design & Use

- 135-750V wide battery voltage range
- IP65 for indoor and outdoor installation
- Support paralleling up to 10 devices
- Compact size and elegant appearance



Model	UHC-25KT	UHC-30KT	UHC-36KT	UHC-40KT	UHC-50KT
PV Input Data					
Max.PV power	375000W	450000W	540000W	60000W	750000W
Max. DC voltage	1000V	1000V	1000V	1000V	1000V
Rated DC voltage	620V	620V	620V	620V	620V
MPPT voltage range	200~850V	200~850V	200~850V	200~850V	200~850V
No. of MPP trackers	4	4	4	4	4
No. of string per MPP tracker	2	2	2	2	2
Max. input current	30×4A	30×4A	30×4A	30×4A	30×4A
Max. short current	40×4A	40×4A	40×4A	40×4A	40×4A
Battery Input Data					
Battery type	Lithium Battery (with BMS)				
Battery voltage range	135-750V				
Max. charge/discharge current	100/100A				
Max. charge	25000W	30000W	36000W	40000W	50000W
AC Output Data (On-grid)					
Rated AC power	25000W	30000W	36000W	40000W	50000W
Max. AC power output to grid	27500VA	33000VA	39600VA	44000VA	55000VA
Max. AC power from grid	30000VA	36000VA	43500VA	48000VA	60000VA
Rated grid voltage	3L/N/PE; 220/380V;230/400V;240/415V				
Rated grid frequency	50/60Hz				
Max. AC current output to grid	42A	50A	60A	66A	83A
Output power factor	0.8 leading ...0.8 lagging				
Output THDi (@Rated output)	<3% @Rated output power				
AC Output Data (Back-up)					
Rated output power	25000W	30000W	36000W	40000W	50000W
Max. output power	27500VA	33000VA	39600VA	44000VA	55000VA
Max. output current	42A	50A	60A	66A	83A
Rated output voltage	3L/N/PE; 220/380V;230/400V;240/415V				
Rated output frequency	50/60Hz				
Output THDv (@Liner load)	<3% @Linear load				
Switch time	<20ms				
Generator Side					
Max. AC power from	30000VA	36000VA	43500VA	48000VA	60000VA
Max. charge	25000W	30000W	36000W	40000W	50000W
Rated input voltage	3L/N/PE; 220/380V;230/400V;240/415V				
Rated input frequency	50/60Hz				
Efficiency					
Max. efficiency	98.8%				
Euro efficiency	98.3%				
Protection					
DC switch	Integrated				
PV reverse polarity protection	Integrated				
Output over current protection	Integrated				
Output over voltage protection	Integrated				
Anti-islanding protection	Integrated				
Residual current detection	Integrated				
Insulation resistor detection	Integrated				
Battery reverse protection	Integrated				
Surge protection level	Integrated				
General Data					
Dimension	800×620×300mm				
Weight	72KG				
Inverter topology	Transformerless				
Standby self consumption	<15W				
Noise	<50dB				
Operating temperature range	-30 C ~60 C				
Relative humidity	0~100				
Operating altitude	3000 (>3000m derating)				
Cooling	Smart fan				
Protection degree	IP65				
Display	OLED & LED				
Communication	CAN, RS485, WiFi/LAN (Optional)				
Standard warranty	Standard 5 years				

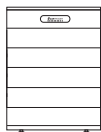
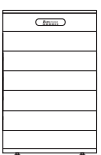
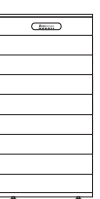
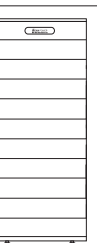
UHB-100 High Voltage Battery System

UHB-100 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
-  Easy installation with modular and stacked design
-  Flexible capacity options, 15.36kWh to 51.2kWh
-  Remote diagnosis and real-time data monitoring



Model	UHB-100							
Electrical Parameters								
	T3	T4	T5	T6	T7	T8	T9	T10
								
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, >10000 times, Remaining capacity >60%							
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 x D x H, mm]	620*365*644	620*365*738	620*365*922	620*365*1061	620*365*1200	620*365*1339	620*365*1478	620*365*1617
Working Conditions								
Installation	Indoor							
Working temperature	Charge: 0℃~55℃; Discharge: -20℃~55℃							
Optimum working temperature	20℃~30℃							
Storage temperature	20℃~30℃							
Humidity	5%-95% (No condensation)							
Altitude	≤2000m							
Enclosure protection rating	IP20							
Cooling	Natural cooling							
Certificate	CE, UN38.3, MSDS							

Information may be subject to change without notice during product improving

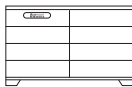
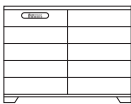
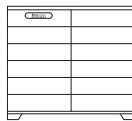
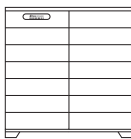
UHB-200 High Voltage Battery System

UHB-200 series is a high voltage battery that offers multiple energy storage options through an expandable modular design (7-13 modules combined), which further simplifies installation and O&M with multiple smart functions.

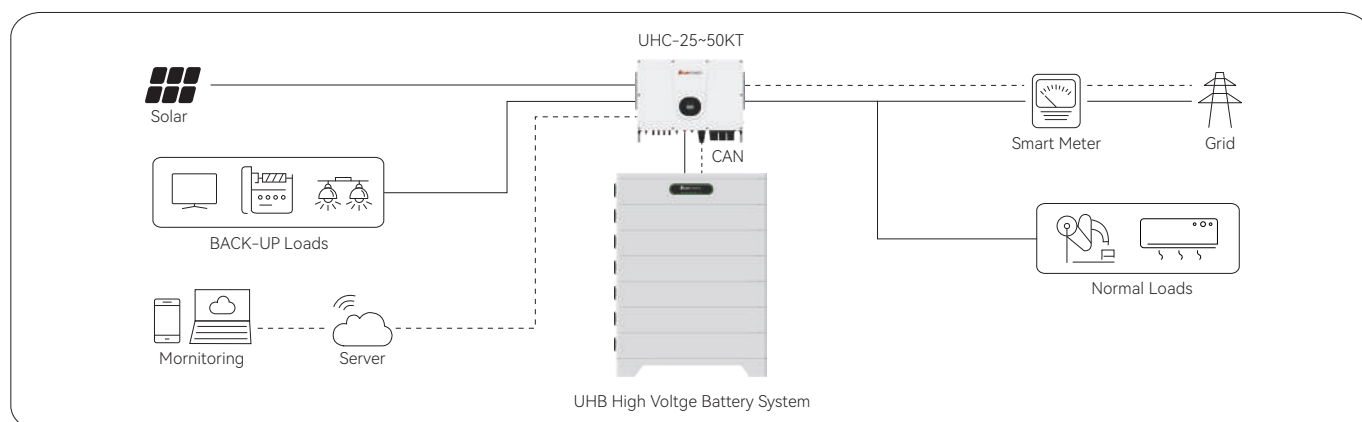
The safest battery cell technology (LFP) comes with a high charging rate, ensuring superior performance.

-  Original battery active balance technology
-  Easy installation with modular and stacked design
-  Flexible capacity options, 53.7kWh to 102.4kWh
-  Remote diagnosis and real-time data monitoring



Model	UHB-200			
Electrical Parameters				
	T7	T9	T11	T13
				
NO. Of Series Battery	7	9	11	13
Rated Energy (kwh)	53.7	69.1	84.4	99.8
Usable Energy (kwh)	48.3	62.2	76	89.8
Rated Voltage (V)	268.8	345.6	422.4	499.2
Voltage Range (V)	235.2~302.4	302.4~388.8	369.6~175.2	436.8~561.66
Battery Type	Li-ion (LFP)			
Rated Capacity(Ah)	200Ah			
Charge Current(A)	100A (Rated) /200A (Maximum)			
Discharge Current (A)	100A (Rated) /200A (Maximum)			
Cycle Times	80% DOD, >10000 times, Remaining capacity >60%			
Communication	RS-485 / RS-232 / CAN 2.0			
Protection function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit			
Dimension [W x D x H, mm]	820*773*662	820*773*802	820*773*942	820*773*1082
Working Conditions				
Installation conditions	Indoor			
Range of working temperature	Charge: 0℃~55℃ Discharge: -20℃~55℃			
Optimal working temperature range	20℃~30℃			
Storage temperature	20℃~55℃			
Working humidity	5%-95% (No condensation)			
Altitude	≤2000m			
Cooling method	Natural cooling			
Certificate	CE, UN38.3, MSDS			

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UTown-50KT-100E



Optimal Power & Storage

- 30A PV input current, 4 MPP trackers
- 150% PV input oversizing
- 100A charge/discharge current



Intelligent and friendly

- Touch Screen Design
- Realize pre-alarm and faults location
- Remote real-time data monitoring and firmware upgrade



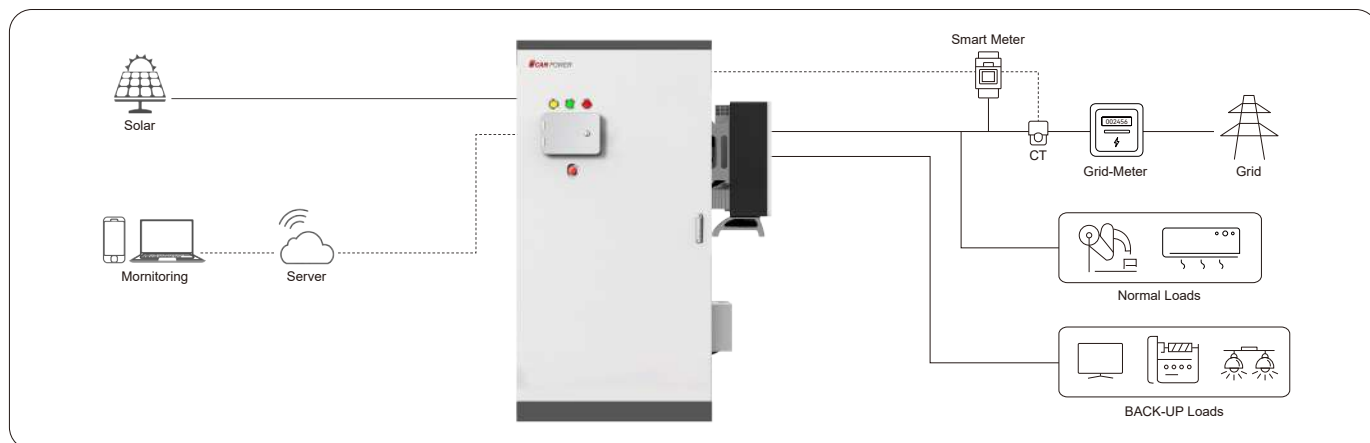
Strong Load & Back-up

- 110% continuous AC output overloading
- 120% max. back-up output overloading @60s
- 20ms UPS-level switching



Flexible Design & Use

- Smart temperature management
- IP55 rating design and multi-scenario operation.
- PV solar and Battery Energy Storage System (BESS) highly integrated



Model	UTown-50KT-100E
PV Input	
Max. PV Input Voltage [V]	1000
MPPT Voltage Range [V]	200-850
No. of MPP Tracker	4
No. of Input Strings per Tracker	2/2/2/2
Max. PV Input Current [A]	30/30/30/30
Max. PV input power [kW]	75
AC Output (On Grid)	
Rated AC Output Power [kW]	50
Max. AC Power [kVA]	55
THDi (@Rated Output)	< 3%
Max. AC Current [A]	83
Rated AC Voltage / Range [V]	3L/N/PE; 220/380V; 230/400V; 240/415V
Rated Grid Frequency / Range [Hz]	50/60Hz
Isolation Transformer	Transformerless
Adjustable Power Factor [cos φ]	0.8 leading ...0.8 lagging
AC Output Data(Off Grid)	
Rated AC Output Voltage [V]	3L/N/PE; 220/380V;230/400V;240/415V
THDv	< 3% (Linear Load)
Rated Grid Frequency [Hz]	50 / 60
Rated AC Output Power [kW]	50
Max. AC Output Power [kVA]	55
Battery	
Cell Type	102Ah
System battery Configuration Capacity	2P*16S*10
Capacity [kWh]	104
Norminal Voltage [V]	512
Voltage Range [V]	448-576
Max. charge and discharge current [A]	100
DOD	95%
General Data	
Ingress Protection	IP55
Cooling	Air-conditioner
BMS Communication Port	CAN
Operation Temperature Range [°C]	-20 ~ 55
Operation Humidity	0 ~ 95%
Operation Altitude [m]	≤ 2000
Cycle Life	6000@90% DOD / 25% / 0.5C
Standards	UN 38.3, IEC / EN 62619, IEC / EN 61000, EN 62477

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UTown Series ENERGY STORAGE SYSTEM(OUTDOOR)

UTown series cabinet integrates energy storage battery, modular PCS, energy management monitoring system, power distribution system, environmental control system and fire control system.

The modular design of PCS is helped to convenient maintenance and capacity expand, and front-access maintenance is feasible to reduce the occupied area and maintenance channels, which is featured with safety and reliability, rapid deployment, competitive cost, premium efficiency and intelligent management.



Flexible parallel functions

With patent technology of VSG features and functions, can realize the functions of multiple equipment remotely parallel and on/off grid switching without communication lines.



Excellent protection

Patent outdoor cabinet protection design, optimizing heat dissipation and air ventilation, prevent dust and rain, Front, back and two sides with door for maintenance, easy to make multiple sets of systems side by side deployment on site, saving the floor space.



Intelligent management

Local monitoring screen can realize various functions such as system operation monitoring, energy management formulation and remote software upgrade of equipment.



Various functions

Standardized structure design, menu function configuration, solar charging module (DC-DC), and on/off grid switching module, isolation transformer and other components can be selected flexibly and efficiently under micro-grid and other applications.

Model	UTown-125KT-233E
Battery	
Rated battery storage capacity	233 kWh
Rated system voltage	768V
Battery voltage range	672V~864V
Battery type	Li-ion(LFP)
Battery Cell capacity	304 Ah
Series and parallel mode of battery	1P*16S*15S
Max. charge and discharge current	152
PV	
Max.PV input voltage	1000V
Max. PV power	110kW
MPPT voltage range	200~650V
MPPT voltage range full load	312~650V
AC	
Rated AC power	125 kW
Rated AC current	180A
Rated AC voltage	400V, 3W+N+PE/3W+PE
Rated frequency	50/60Hz
THDI	<3%(rated power)
PF	-1 leading to +1 lagging
General Data	
Enclosure protection rating	IP54
Protection class	I
Isolation mode	Non-Isolation (Adding isolation transformer is optional)
Humidity	0~95% (No condensing)
Noise	< 75dB
Operating temperature	-25~60°C(Derating above 45°C)
Cooling	Intelligent air cooling
Altitude	3000m(>3000m derating)
Communication interface	RS485/ CAN 2.0/ Ethernet/dry contact