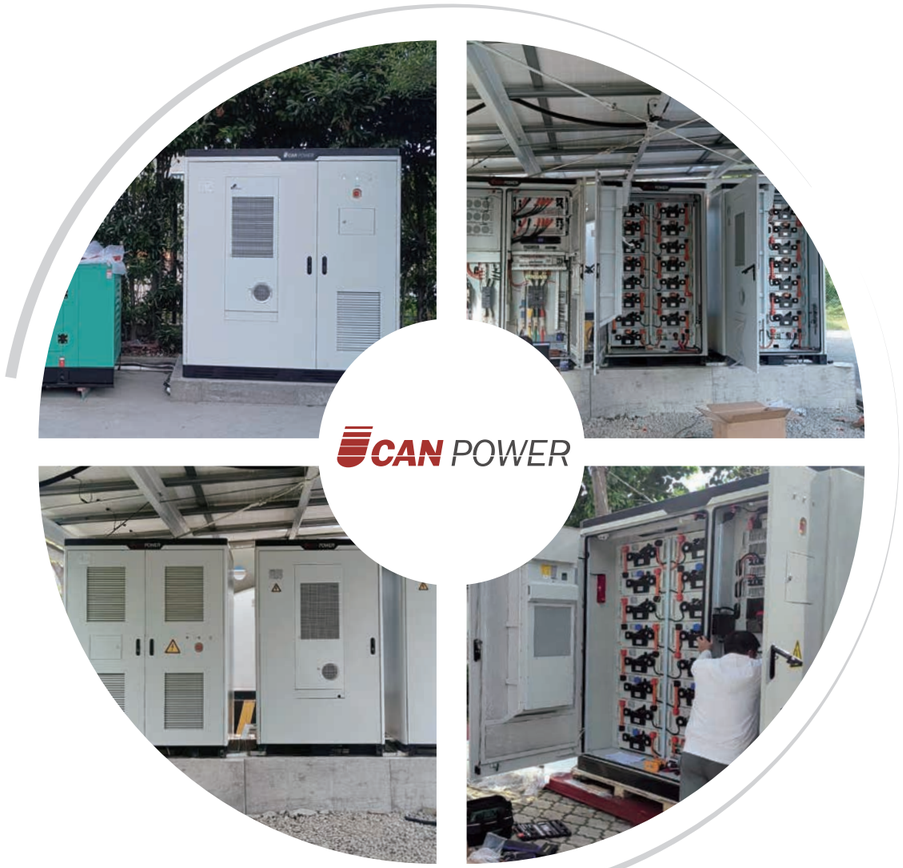

INDUSTRIAL AND COMMERCIAL DC COUPLED SOLAR & ENERGY STORAGE SOLUTION

Upower Electric Co., Ltd

Upower Electric Co., Ltd

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+86-755-28263405

info@ucanpower.com

www.ucanpower.com

C&I-EN-V1.0-20260316

15,000m²
Production Area

200,000Sets
Annual Production Capacity

Inverter Assembly


Aging Chamber Test


All-IN-ONE Assembly


PACK Assembly


Storage Cabinet Assembly

Who is UCanPower ?

40%
Percentage of Engineers

15+
Industry Experience

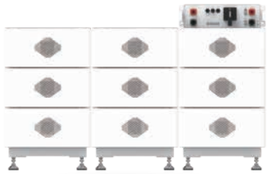
Upower Electric Co., Ltd has been a leading supplier of solar energy storage systems and solutions worldwide for many years. Our primary brand, UCANPOWER, focuses on providing cost-effective and purpose -built solutions for the residential and small commercial solar ESS market.

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.

Three Phase Hybrid Inverter
UHC 40KT-U2
UHC 50KT-U2

High Voltage Battery System
UHB-200

Power Conversion System Cabinet
UMG-PCS-125KT



High Voltage Battery System
UHB-300

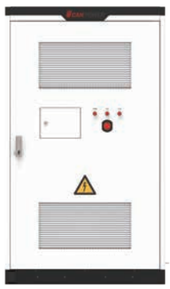
All-in-One ESS
UTown-50KT-96E
UTown-50KT-112E

All-in-One ESS
UTown-125KT-241E
UTown-125KT-261E

All-in-One ESS
UTown-125KT-261-ACL

Solar Charge Controller
UMG-PVB 80KD
UMG-PVB 100KD
UMG-PVB 125KD

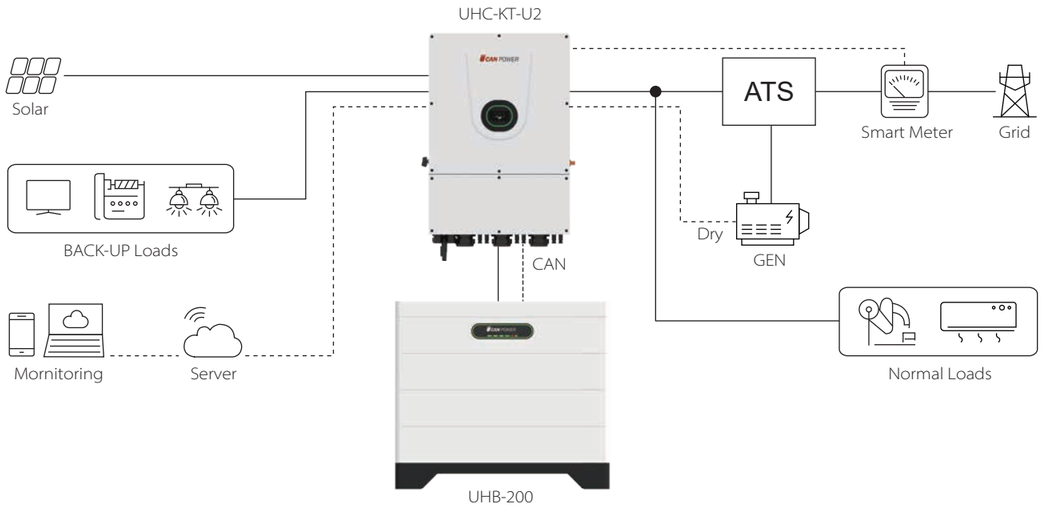
Energy Storage Battery Cabinet
UMG-BSS-261E
UMG-BSS-261E-I



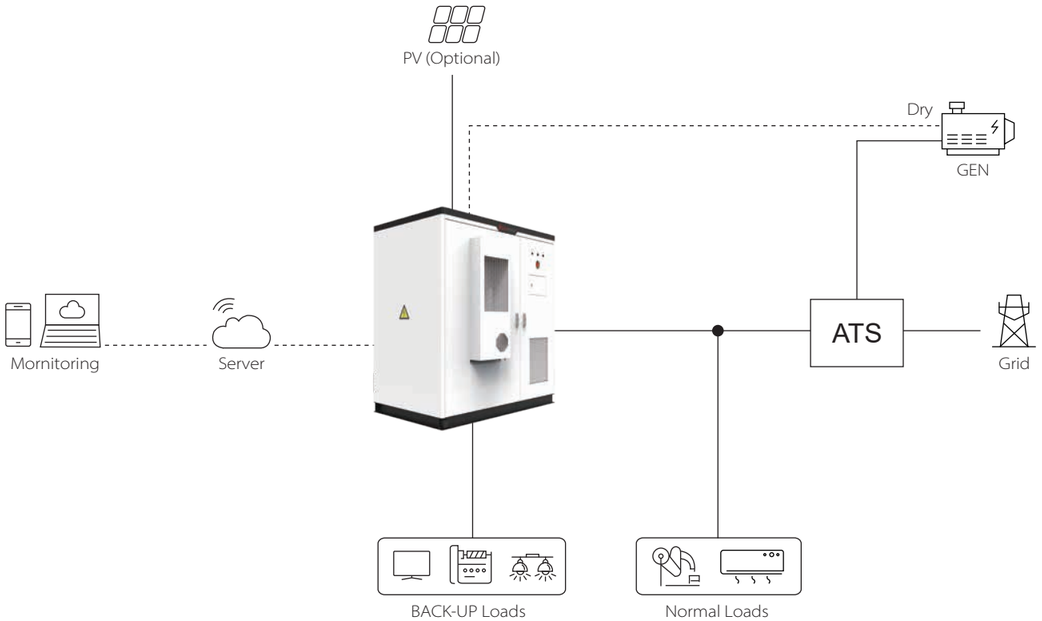
Power Conversion System Cabinet
UMG-PCS-250KT
UMG-PCS-375KT
UMG-PCS-500KT

AC Combiner Cabinet
UMG-ACB-800A
UMG-ACB-1600A

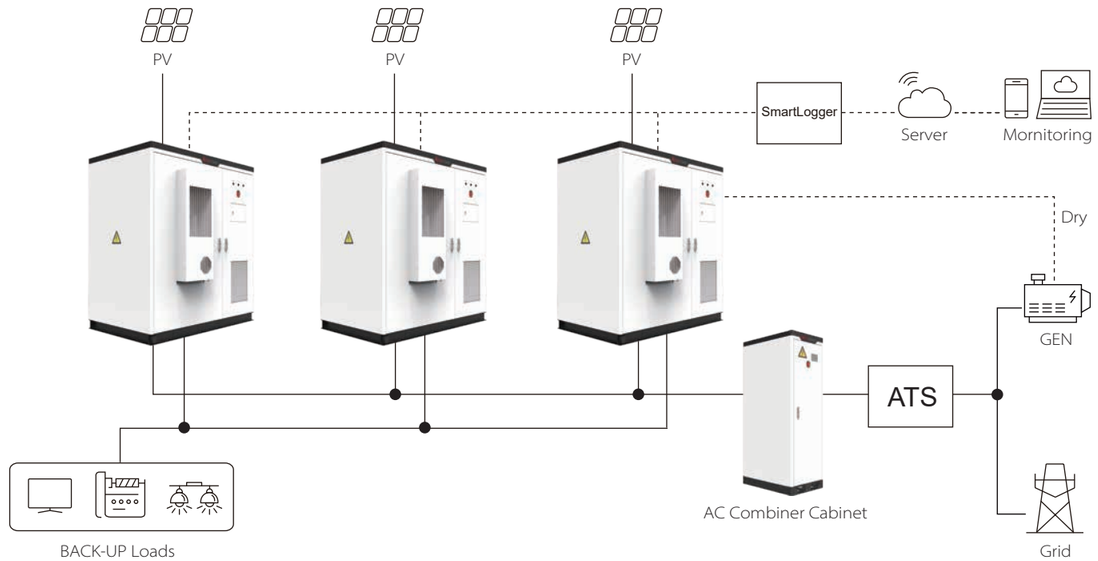
Solar&Energy Storage DC Coupling Solution for Commercial



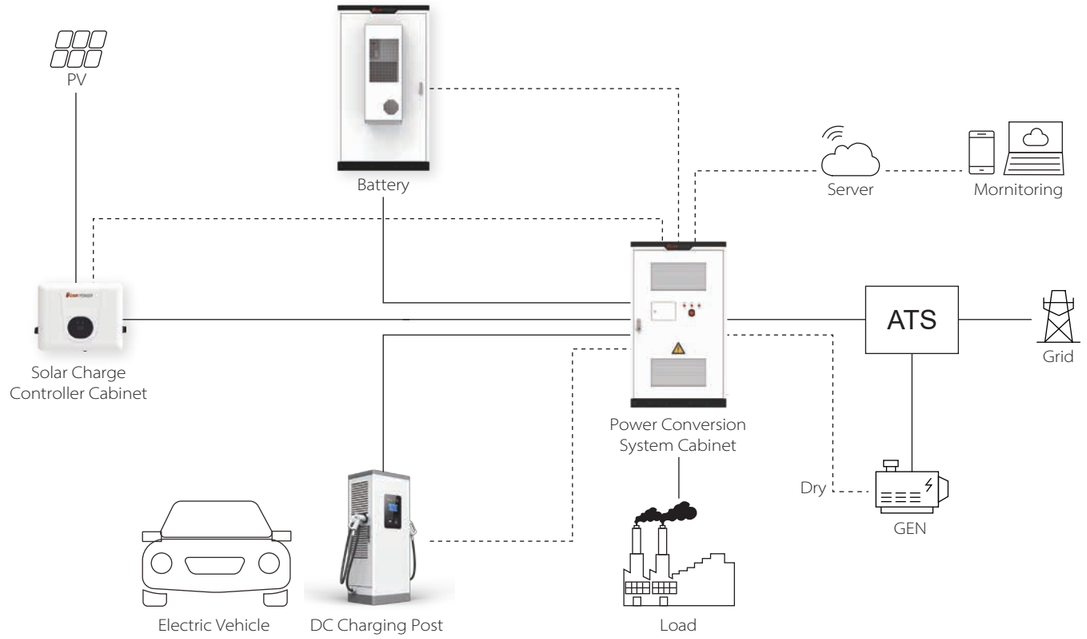
Solar&Energy Storage All-in-One Solution for Commercial



Integrated Multi Units Parallel Solar & Energy Storage Solution for Industrial



Solar&Energy Storage DC Coupling Solution for Industrial



UHC Series 40~50kW
Three Phase Hybrid Inverter

>20A

Greater than 20A DC input current to better match high power panel

6 MPPTs

Multi channel MPPTs design ensures PV power generation

AC retrofit & easy installation

10 Parallel

Supports parallel operation of up to 10 machines

20ms

With UPS function switch time≤20ms

100%

Support 100% three-phase unbalanced load output

Type II AC & DC Surge protection

Generator Interface
Having an independent diesel generator engine interface

Model	UHC-40KT-U2	UHC-50KT-U2
DC Input		
Max. PV Array Power [Wp]@STC	80000	100000
Max. DC Voltage [V]	1000	
MPPT Voltage Range [V]	180~850	
Rated DC Voltage [V]	600	
Start Voltage [V]	200	
Max. DC Input Current [A]	6*45	6*45
Max. DC Short Circuit Current [A]	6*56.5	6*56.5
Number of independent MPPT trackers	6	6
Number of Strings per MPPT	2	
Battery Parameters		
Battery Type	$LiFePO_4$	
Battery Voltage Range [V]	180~800	
Max.Charging/Discharging Current [A]	150	
AC Output [On-grid]		
Rated AC Power [W]	40000	50000
Max. Apparent Power [VA]	44000	55000
Rated Output Current [A]@230Vac	58.0	72.5
Max. AC Output Current to Utility Grid [A]	63.8	79.8
Rated AC Voltage [V]	3+N+PE/3+PE, 380/400	
Rated Output Frequency [Hz]	50, 60	
Power Factor [cos ϕ]	0.8 leading-0.8 lagging	
Total Harmonic Distortion [THDi]	<3%	
AC Input [On-grid]		
Rated AC Voltage/Range [V]	3+N+PE/3+PE, 380/400	
Rated Output Frequency [Hz]	50, 60	
Max. Input Current [A]	150	
AC Output [Back-up]		
Max.Output Power [VA]	44000	55000
Peak Output Apparent Power [VA]	60000,5s	75000,5s
Rated AC Voltage [V]	3+N+PE/3+PE,380/400	
Rated Output Frequency/ [Hz]	50, 60	
Output THDv (@ Liner Load)	<3%	
AC Input [Generator]		
Max. Input Power [W]	40000	50000
Max. Input Current [A]@230V	58.0	72.5
Rated Input Voltage [V]	3+N+PE/3+PE, 380/400	
Rated Input Frequency [Hz]	50, 60	
Efficiency		
Max. Efficiency	98.0%	
Euro Efficiency	97.3%	
Max. Battery to AC Efficiency	96.0%	
Protection		
Protection	PV Reverse Polarity Protection, Anti-islanding Protection, AC Overcurrent Protection, AC Short Circuit Protection, AC Overvoltage Protection	
DC switch	Integrated	
DC Surge Protection	II	
AC Surge Protection	II	
AFCI	Integrated	
RSD	Optional	
General Parameters		
Communication	Wi-Fi/Ethernet/CAN/RS485	
Topology	Transformerless	
Operating Temperature Range	-40℃ to +60℃ (45℃ to 60℃ with derating)	
Cooling Method	Smart Fan Cooling	
Ambient Humidity	0-100% Non-condensing	
Altitude [m]	3000	
Ingress Protection	IP66	
Dimensions [W*H*D, mm]	630*953*337	
Weight [kg]	93	

UHB-200
High Voltage Battery System

53.7~130.5kWh
Batteries are stacked in modules, scalable from

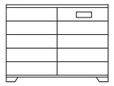
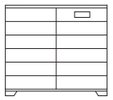
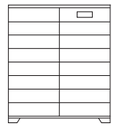
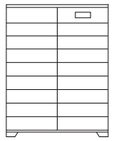
100A
Supports up to 100A Max. charging/discharging

Easy installation with modular and stacked design

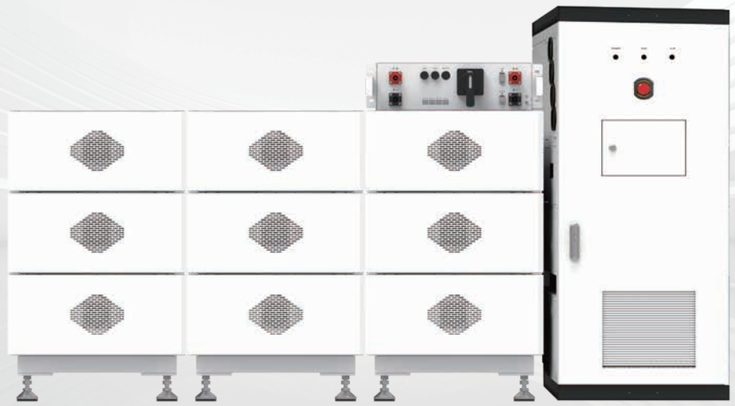
IP54
IP54 rating, supports outdoor installation

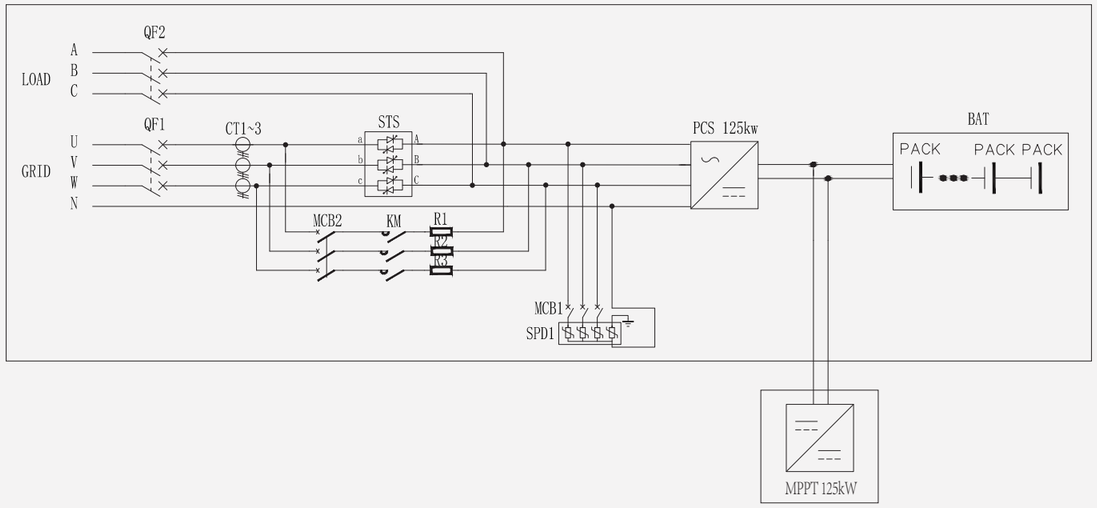
Cell-level active equalization

Support remote software upgrade (OTA)

Model	UHB-200					
Electrical Parameters						
	T7	T9	T11	T13	T15	T17
System Structure						
NO. Of Series Battery	7	9	11	13	15	17
Rated Energy (kwh)	53.7	69.1	84.4	99.8	115.2	130.5
Usable Energy (kwh)	48.3	62.2	76	89.8	103.6	117.6
Rated Voltage (V)	268.8	345.6	422.4	499.2	576	652.8
Voltage Range (V)	235.2~302.4	302.4~388.8	369.6~475.2	436.8~561.7	504~648	571.2~734.4
Battery Type	Li-ion (LFP)					
Rated Capacity(Ah)	200Ah					
Charge Current(A)	100A (Rated)					
Discharge Current (A)	100A (Rated)					
Cycle Times	80% DOD, >6000 times, Remaining capacity>80%					
Communication	RS-485/CAN 2.0					
Protection function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit					
Dimension [W*D*H, mm]	820*801.5*716	820*801.5*855	820*801.5*994	820*801.5*1133	820*801.5*1274	820*801.5*1413
Working Conditions						
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	≤3000m					
Protection degree	IP54					
Cooling method	Natural cooling					
Certificate	CB, UN38.3, MSDS					

125kW-241E All-in-One ESS
ENERGY STORA GE SYSTEM (Indoor)



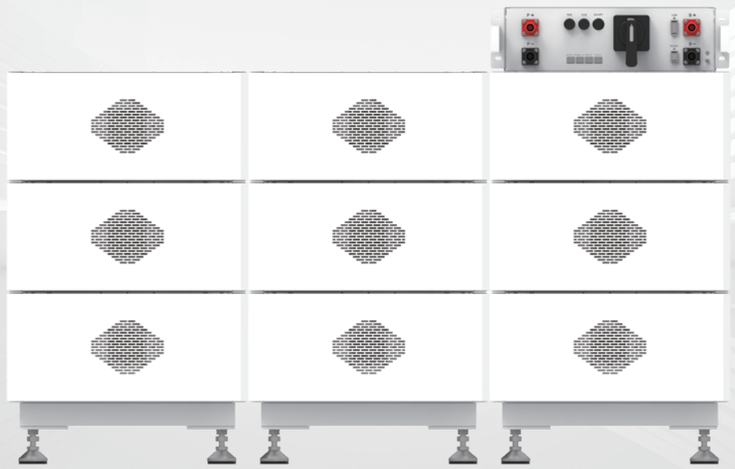


Model	125kW-241E All-in-One ESS
Battery system (UHB-300 T11)	
Rated battery storagecapacity	241kWh
Rated system voltage	768V
Battery voltage range	672~864V
Battery type	Li-ion(LFP)
Battery Cell capacity	314Ah
Series and parallel mode of battery	1P*16S*15
Max. charge and discharge current	157
PCS Module	
Rated AC power	125kW
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
STS Module	
Rated AC Power	300kW
Mar. Power	330kW
Switching time	< 10ms
General Data	
Enclosure protection rating	IP20
Protection class	I
Isolation mode	Non-Isolation (Adding isolation transformer is optional)
Humidity	0~95% (No condensing)
Noise	< 75dB
Operating temperature	0~60℃ (Deratingabove 45℃)
Cooling	Intelligent air cooling
Altitude	3000m (>3000m derating)
Communication interface	RS485/CAN 2.0/Ethernet/dry contact

MPPT Module (UMG-PVB-125KD) (External)

Max.PV input voltage	900V
Max. PV power	125kW
MPPT voltage range	200~900V
MPPT voltage range full load	520~950V

UHB-300
High Voltage Battery System



157A

Supports up to 100A
Max. charging/discharging

80~241kWh

Batteries are stacked in modules

Easy installation with modular and stacked design

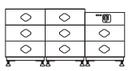
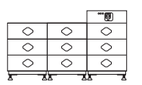
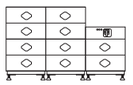
IP20

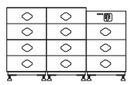
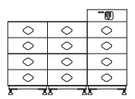
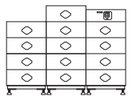
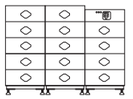
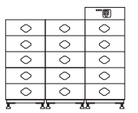
IP20 rating, supports outdoor installation

Cell-level active equalization

Support remote software upgrade (OTA)

Model	UHB-300										
Electrical Parameters											
NO. Of Series Battery	5	6	7	8	9	10	11	12	13	14	15
Rated Energy (kwh)	80.4	96.48	112.56	128.64	144.72	160.8	176.88	192.96	209.04	225.12	241.2
Usable Energy (kwh)	72.36	86.83	101.30	115.77	130.24	144.72	159.19	173.66	188.13	202.60	217.08
Rated Voltage (V)	256.0	307.2	358.4	409.6	460.8	512.0	563.2	614.4	665.6	716.8	768
Voltage Range (V)	224~288.0	268.8~345.6	313.6~403.2	358.4~460.8	403.2~518.4	448.0~576.0	492.8~633.6	537.6~691.2	582.4~748.8	627.2~806.4	672~864
Battery Type	Li-ion (LFP)										
Battery pack series and parallel connection	1P*18S										
Rated Capacity (Ah)	314										
Charge Current (A)	157A (Rated)										
Discharge Current (A)	157A (Rated)										
Cycle Times	80% DOD, >6000 times, Remaining capacity >80%										
Communication	RS-485/CAN 2.0										
Dimensions [W*H*D, mm]											
Weight [kg]											
Protection function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit										
Working Conditions											
Range of working temperature	Charge: 0℃~55℃ Discharge: -20℃~55℃										
Optimal working temperature range	20℃~30℃										
Storage temperature	20℃~30℃										
Working humidity	5-95% (No condensation)										
Altitude	≤3000m										
Enclosure protection rating	IP20										
Cooling method	Natural cooling										
Certificate	UN38.3, MSDS										

T5	T6	T7	T8	T9	T10
					

T11	T12	T13	T14	T15
				

UTown Series
All-in-One Energy Storage System

>20A

Greater than 20A PV input current to better match high power panel

6 MPPTs

Multi channel MPPTs design ensures PV power generation

90~112kWh

Modular battery with optional capacity

10 Parallel

Supports parallel operation of up to 10 machines

20ms

With UPS function switch time⩽20ms

100%

Support 100% three-phase unbalanced load output

Independent wiring compartment, simple installation and safer.

Generator Interface Having an independent diesel generator engine interface

Model	UTown-50KT-96E	UTown-50KT-112E
PV Input		
Max. PV Array Power [Wp]@STC	100000	
Max. DC Voltage [V]	1000	
MPPT Voltage Range [V]	180~850	
Rated DC Voltage [V]	600	
Start Voltage [V]	200	
Max.DC Input Current [A]	6*45	
Max.DC Short Circuit Current [A]	6*56.5	
Number of Strings per MPPT	2	
Battery Parameters		
Battery Type	$LiFePO_4$	
Rated Energy [kWh]	96.5	112.6
Max.Charging/Discharging Current [A]	150	
Battery voltage range	268.8~307.2	313.6~403.2
AC Output [On-grid]		
Rated AC Power [W]	50000	
Max.Apparent Power[VA]	55000	
Rated Output Current[A]@230V	72.5	
Max. Output Current [A]@230V	79.8	
Rated AC Voltage [V]	3+N+PE/3+PE,380/ 400	
Rated Output Freguency/Range [Hz]	50,60/45~55,55~65	
Power Factor [cos ϕ]	0i-1-0c	
Total Harmonic Distortion [THDi]	<3%	
AC input [On-grid]		
Rated AC Voltage/Range [V]	3+N+PE/3+PE,380/400	
Rated Output Frequency [Hz]	50,60	
Max. Input Current [A]	150	
AC Output [Back-up]		
Max.Output Power [VA]	55000	
Peak Output Apparent Power [VA]	75000,5s	
Rated AC Voltage [V]	3+N+PE/3+PE,380/ 400	
Rated Output Frequency/Range [Hz]	50,60/45~55,55~65	
Output THDv (@ Liner Load)	<3%	
AC input [Generator]		
Max. input Power [W]	50000	
Max. Input Current [A]@230V	72.5	
Rated Input Voltage [V]	3+N+PE/3+PE,380/ 400	
Rated Input Frequency/Range [Hz]	50,60/45~55,55~65	
Efficiency		
Max. Efficiency	98%	
Euro Efficiency	97.3%	
Max. Battery to AC Efficiency	96.0%	
Protection		
Protection	PV Reverse Polarity Protection, PV Reverse Polarity Protection, Anti-islanding Protection, AC Overcurrent Protection, AC Short Circuit Protection, AC Overvoltage Protection,	
DC switch	Integrated	
DC Surge Protection	II	
AC Surge Protection	II	
AFCI	Integrated	
RSD	Optional	
General Parameters		
Communication	Wi-Fi/Ethernet/CAN/RS485	
Topology	Transformerless	
Operating Temperature Range	-30℃ to +50℃ (45℃ to 50℃ with derating)	
Cooling Method	Battery: Air Conditioner, Inverter: Natural Convection	
Ambient Humidity	5~95% (No Condensing)	
Altitude [m]	<3000	
Ingress Protection	IP55(Battery), IP65(Inverter)	
Warranty [Year]	5(Inverter)/10(Battery)	
Dimensions [W*D*H, mm]	1700*1350*2250	

UTown Series
All-in-One DC Coupled Microgrid System

Modular integrated cabinet for PV & energy storage, easy to install and use.

The modular design of the power unit allows free configuration of the input and output power.

Standard configuration isolation transformer

5 Parallel

Supports up to 10 units in parallel.

Cell-level active equalization

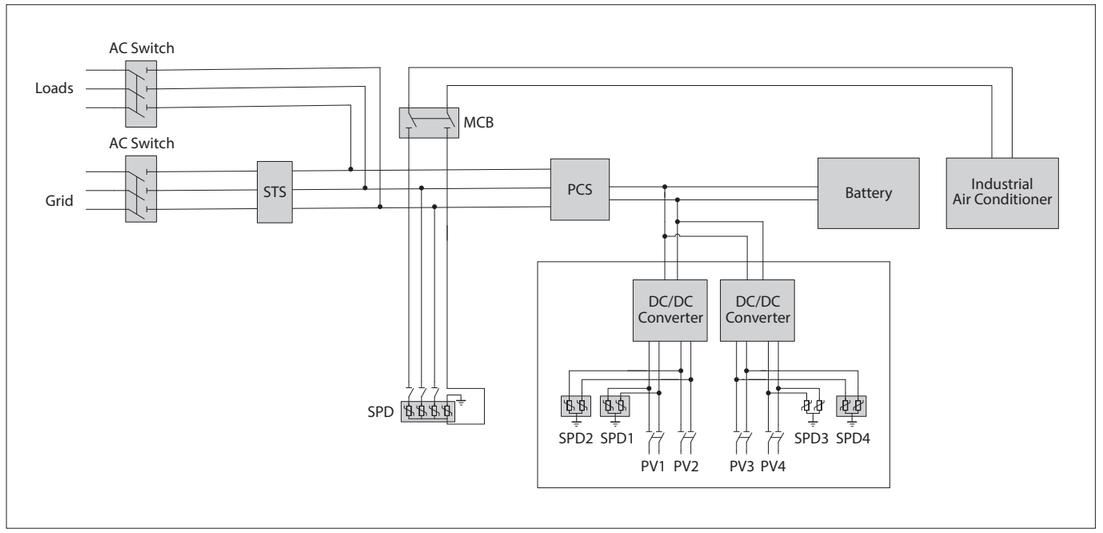
Multi-level thermal management system to eliminate the risk of ignition and explosion

IP55

IP55 rating, supports outdoor installation

Integrated STS module for fast off-grid switching

Model	UTown-125KT-241E	UTown-125KT-261E
Battery		
Rated battery storagecapacity	241kWh	261kWh
Rated system voltage	768V	832V
Battery voltage range	672V~864V	728V~936V
Battery type	Li-ion (LFP)	
Battery Cell capacity	314Ah	
Series and parallel mode of battery	1P*20S*12S	1P*20S*13S
Max. charge and discharge current	157A	
AC		
Rated AC power	125kW	
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	IP55	
Protection class	I	
Isolation mode	Non-Isolation (Adding isolation transformer is optional)	
Humidity	0~95% (No condensing)	
Noise	<75dB	
Operating temperature	-25~60℃ (Deratingabove 45℃)	
Cooling	Intelligent air cooling	
Altitude	≤3000m (>3000m derating)	
Weight	3000kg (TBD)	
Dimension [W*D*H]	2050*1250*2250mm	
Communication interface	RS485/CAN 2.0/Ethernet/dry contact	



UTown Series
Liquid-Cooled Outdoor Energy Storage Cabinet

Peace of Mind

- The lithium iron phosphate battery cell system is safe and stable
- Multiple fire suppression methods ensure an extremely low risk level
- The cabinet features an IP55 protection rating, making it suitable for a wide range of environmental applications
- The battery management system offers comprehensive charge/discharge, temperature, and balancing management functions

Intelligent Design

- Supports AC-side parallel operation of multiple battery cabinets
- Multiple charging modes, supporting both PV and grid charging
- String-based system design
- Standardized product design, suitable for a wide range of system applications

User-Friendly

- Versatile AC power interface for reliable and convenient connectivity
- Multiple operating modes to accommodate all application scenarios
- Supports system power upgrades and smart control upgrades

Model	UMG-BM-20S	UTown-125KT-261-ACL
Battery Parameters		
Rated Voltage	166.4V	832V
Voltage Range	145.6~187.2V	728~936V
Battery Capacity	52.2KWh	261.2KWh
Maximum Charge Rate	0.5C	0.5C
Maximum Discharge Rate	0.5C	0.5C
Rated Discharge Power	26.1KW	130.6KW
Rated Charge Power	26.1KW	130.6KW
Battery Configuration	IP52S	IP260S
Battery Type	$LiFePO_4$	$LiFePO_4$
AC Output		
Rated Grid Voltage (Grid-Connected)	AC400V	
Allowed Grid Voltage Range (Grid-Connected)	AC400V(-20%~+15%)	
Grid Frequency Range (Grid-Connected)	50Hz/60Hz(+2.5Hz)	
Grid Power Factor (Grid-Connected)	-0.99~+0.99	
AC Output Voltage (Off-Grid)	AC400V	
AC Voltage Range (Off-Grid)	AC400V±3%	
AC Off-Grid Frequency (Off-Grid)	50Hz/60Hz	
Energy Conversion Efficiency	>98%	
Charge/Discharge Cycle Time	≤100ms	
Permissible Ambient Temperature	-20~+50℃	
Permissible Relative Humidity	<95%	
Number of Battery Cabinets Controlled	Recommendations≤5	
General Parameters		
Operating Temperature Range	0~55℃	0~55℃
Storage Temperature Range	-10~50℃	-10~50℃
Relative Humidity	≤85%RH	≤85%RH
Cooling Method	Liquid-Cooled	Liquid-Cooled
Temperature Difference	≤2K@25℃	≤3K@25℃
Protection Rating	IP67@Rack	IP55
Safety Rating	HL≤2	HL<2

UMG-PVB Series
PV MPPT Controller

DC Storage

The direct current (DC) generated by PV can be directly stored in batteries

6 MPPTs

Meet the multi-angle installation requirements of PV modules

IP65

Support direct outdoor installation

Wall-Mounted

Wall-mounted installation saves more installation space

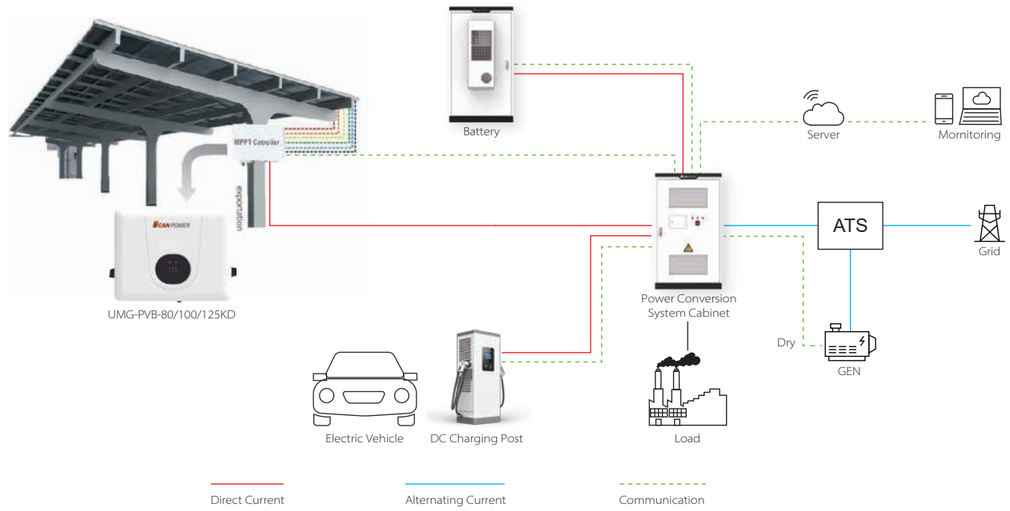
Efficiency

With a photovoltaic DC input voltage range of 200~900V, it generates electricity for a longer duration

20A

20A input current per string, supporting the access of higher -power solar panels

Model		UMG-PVB-80KD	UMG-PVB-100KD	UMG-PVB-125KD
Input Parameters	Maximum photovoltaic array voltage	No more than 900V and no higher than the maximum tolerance voltage of the rear battery.		
	MPPT voltage range	200V~900V		
	Full load MPPT voltage range	334V~900V	417V~900V	520V~900V
	Max. DC Current per String	20A		
	No. of PV Input Strings	6*2		
	No. of MPPTs	6		
	Max. DC Current per MPPT	40A		
Output Parameters	Voltage range	600-950V		
	Rated voltage	Default 716.8V, adjustable		
	Rated output current	168A		
	Rated output power	80kW	100kW	125kW
	Maximum output current	240A		
System Parameters	European efficiency	0.992	0.993	0.994
	Protection level	IP65		
	Cooling method	Air cooling		
	Dimensions (W*H*D)	550*435*228		
	Working temperature	-30℃~60℃		
	Power supply mode	Self-powered (no nighttime power consumption)		
	Communication interface	RS485/CAN/TCP		



UMG-BSS Series
High Voltage Battery System

Outdoor (IP55)

Indoor (IP20)

The UMG-BSS series energy storage battery cabinet adopts modular design and is suitable for various industrial and commercial energy storage scenarios.

Flexible
- The system adopts modular design, allowing for free selection of capacity configuration
- Multiple cabinets can be connected in parallel to achieve MW level applications

Secure
- Multiple electrical protections ensure safe charging and discharging
- Choose different levels of protection, suitable for indoor or outdoor use

Stability
- Outdoor cabinet configuration with industrial grade temperature control management system
- Configure an independent fire protection system to ensure safe operation

Wisdom
- Active battery balancing technology ensures safe and worry free operation of the system
- Support remote data monitoring and maintenance

Model	Battery Module UMG-BSS-261E-I	Battery System UMG-BSS-261E
Battery Parameters		
Rated voltage	832V	832V
Voltage range	728~936V	728~936V
Battery Energy	261kWh	261kWh
Max. charge rate	0.5C	0.5C
Max. discharge rate	0.5C	0.5C
Rated charge power	130KW	130KW
Rated discharge power	130KW	130KW
Composition method	1P260S	1P260S
Battery Type	Li-ion (LFP)	
Protection function	Over voltage / Under voltage / Over temperature / Low temperature / Over current / Short circuit	
General Data		
Operating Temperature Range	0~55℃	
Storage temperature range	-10~55℃	
Humidity	0~85% (non-condensing)	
Cooling strategy	Natural Cooling	Air-Conditione
difference in temperature	≤5K@25℃	
Protection degree	IP20	IP55
Dimensions [W*D*H]	1320*1250*2250mm	
Communication	RS485/CAN	

UMG-PCS Series
Power Conversion System Cabinet

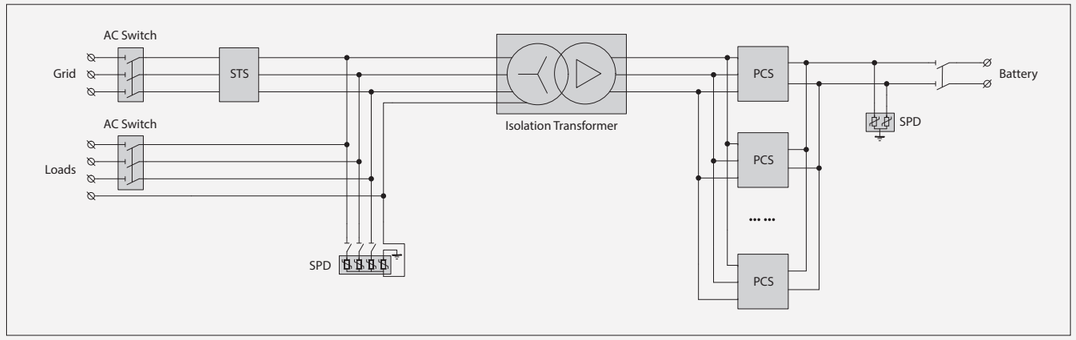
The UMG-PCS series energy storage converters are designed specifically for DC coupled microgrid applications in industrial and commercial scenarios. This product adopts a pre installed standard cabinet design, with a built-in DC/AC bidirectional converter module that supports flexible capacity increase and decrease.

Efficient and Intelligent
- Using a three-level circuit design with low current harmonics
- Built in EMS module for intelligent monitoring and operation and maintenance

Flexible Configuration
- Rack mounted modular design, flexible configuration, easy maintenance and expansion
- Three phase three wire/three-phase four wire adaptive, three-phase voltage phase sequence adaptive

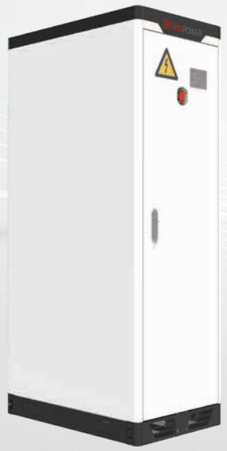
Flexible Application
- Built in STS module with off grid switching function,
- Optional isolation transformer to achieve stable power supply

Stable Operation
- Supports a maximum DC voltage of 1000V
- Excellent high and low voltage ride through capability, with strong adaptability to the power grid



Model	UMG-PCS-250KT	UMG-PCS-375KT	UMG-PCS-500KT
DC Parameters			
Working voltage range	580~1000V		
Full load voltage range	625~1000V		
Max. DC current	200A*2	200A*3	200A*4
Number of DC Inputs	1/2	1/3	1/4
Adaptive Battery	Lithium/lead acid/photovoltaic module		
Charging mode	By BMS Command/Tri-Stage/MPPT		
Operating modes	Constant Voltage, Constant Current, Constant Power, MPPT, AC Voltage Source, DC Voltage Source, VSG		
AC Parameters (on Grid)			
Max. AC power	275kW	413kW	550kW
Rated AC power	250kW	375kW	500kW
Rated AC current	180A*2	180A*3	180A*4
Rated AC voltage	400Vac, 3W+N+PE/3W+PE		
Rated AC voltage range	400V (-15%~+10%)		
Rated frequency	50/60Hz, (±5Hz)		
THDv	<3%		
power factor	-1 leading to +1 lagging		
AC Parameters (Loads)			
Rated AC voltage	400V		
Output THDv (@Liner load)	<3%		
Rated frequency	50/60Hz		
Overload capacity	110% long range; 120% 1 minute		
Protective Function			
DC input protection	Load switch + Fuse		
AC input protection	Breaker + Fuse		
overvoltage protection	DC Type II /AC Type II		
overcurrent protection	Yes		
Residual current detection	Yes		
Anti-islanding protection	Yes		
STS Module	600kW		
EMS Module	Yes		
General Data			
Max. efficiency	97.50%		98.5%
Isolation method	Isolation transformer		
Protection degree	IP55		
Operating temperature range	-30~60°C (Derating above 45°C)		
Humidity	0~100% (non-condensing)		
Cooling strategy	Forced air cooling		
Noise	<70dB		
Operating altitude	3000m (>3000m derated)		
Dimensions [W*D*H]	1300*1250*2250mm		
Communication	RS485/CAN 2.0/Ethernet		

UMG-ACB Series
AC Combiner Cabinet



The ACB series is a highly integrated AC side combiner management system. This system has the characteristics of multi power management and conversion, circuit breaker control status monitoring, emergency stop control and status indication, comprehensive alarm and protection functions, etc. These functions collectively ensure the safe, stable, and efficient operation of the system, improving its maintainability and intelligence level.

Model	UMG-AC-400/2000A
Constituent Element	
Circuit breakers (electrically operated)	400V/2000A
Surge protector	AC standard voltage Un230V/400V (50/60Hz) Nominal discharge current 20KA Protection voltage ≤1.75KV Response time ≤25ns Nominal current 20KA Protection voltage Up < 4.5KV Response time ≤25ns
Emergency stop switch	220Vac/10A
AC circuit breaker	2P/AC400V/16A
LED status indicator	Power/Running/Fault
Relay (electronics)	24Vdc
Display Control Module	10.1' display
Dimensions [W*D*H]	900*900*2250mm

Smart Energy Management System

The UCANESS system is an energy management system for industrial and commercial solar & energy storage projects that integrates software and hardware, developed based on technologies such as the Internet of Things, big data, and cloud computing.

The EMS system collects and extracts data from intelligent hardware or sensors (such as MPPT, BMS, PCS, air conditioning, smart meters, fire protection systems, etc.), analyzes and summarizes it through big data technology, and ultimately achieves comprehensive smart energy management.

- Real time data display of energy utilization
- Execution of multi-mode energy scheduling strategy
- Alarm and fault information notification
- Remote device settings, remote software upgrades, and other functions
- Intelligent management of diesel generators and other equipment



Integrated Solar&Storage & EV Charging System

Location: Yichang City, China
Capacity: 500kW-482kWh
Product Model: UMG-PCS-500KT, UMG-BSS-241E



Hybrid Wind-Solar-Diesel-Storage Microgrid System

Location: Jiangyin City, China
Capacity: 125kW-241kWh
Product Model: UTown-125KT-241E



Solar-Storage Microgrid System

Location: Nigeria
Capacity: 125kW-241kWh
Product Model: UTown-125KT-241E



Solar-Storage Microgrid System

Location: Mali
Capacity: 125kW-241kWh
Product Model: UTown-125KT-241E



Solar-Storage Microgrid System

Location: Yangon, Myanmar
Capacity: 450kW-900kWh
Product Model: UHC-50KT-U2, UHB-200



Solar-Storage Microgrid System

Location: Yangon, Myanmar
Capacity: 250kW-500kWh
Product Model: UHC-50KT-U2, UHB-200