



I²-ESS **SOLUTIONS**

Green solor energy connect the world with intelligence



CONTACT













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Directory •

INTELLIGENT CONNECTION OF WORLD WITH GREEN LIGHT ENERGY



01Company Introduction

02Our Products

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Company Introduction .



Cored by science and technology



Driven by **reform and innovation**



Forge the **brand** with credibility



Create a better world on the basis of **win-win**



Intelligence & Integrity Energy Technology Co.,Ltd.

I² Energy Storage is one of the "I²" series brands of I² Energy Technology Co., Ltd. (the Company), a wholly-owned subsidiary of PowerChina Jiangxi Electric Power Construction Co., Ltd. The Company is specialized in R&D and application of energy storage technology.

The Company's core business includes design, development, integration, operation & maintenance of energy storage system, in order to offer comprehensive energy storage solutions for clients.

Based on the profound insight and forward-looking strategic thinking for further trends of new energy market, the Company constantly improves the technical innovation foundation of products and techniques, which fully implies its strong core competitiveness.

The Company's products and services cover the all-round demands from user energy storage to large energy storage power station, and can satisfy the customized demands for energy storage system.

180,000+

Number of employees

130+countries

Cover 130+ countries worldwide

Solutions

All-round customization

EPC

Integration and builder in EPC engineering field





Global Layout .

Latin AmericaJamaica

Brazil

Africa Nigeria **Middle East** Dubai **Southeast Asia**Philippines
Indonesia

Aussie Australia **Central Asia** Iraq Pakistan **Africa** Kenya



The Company's business has covered the entire world:

Nigeria in Africa, Brazil in Latin America, Philippines in Southeast Asia, Indonesia, Dubai in Middle East, Australia in Aussie, Central Asia and the Iraq-Pakistan Region, Kenya in Africa, etc.





Product Introduction •



PV bracket



Pγ





Solar Energy Storage Product Series

The Company's solar energy storage system solutions include "PV bracket + PV + solar energy storage AIO + battery" complete solutions. The Company has multiple solar energy storage AIOs and battery products which are applicable to the new solar energy storage power stations, transformation of former grid-connected systems or the areas with no (weak) power grid. The Company's solar energy storage system solutions can realize higher proportion of green electricity and reduce the expense of electricity; it can also provide backup power supply to avoid power outage of key equipment; users can master the power station conditions through the Company's Carbon Cloud and enjoy a low-carbon life.





Low-Voltage Residential Products

ZXE-LW5120-D



Support a variety of communication protocols. support RS485,RS232, CAN, etc



Intelligent battery management system



Modular structure for easy installation



LED lights display the parameters of the equipment





Excellent security performance







appearance diagram of i² residential low-voltage stackable batteries product



Items	Specificat		5		Remarks	
Nominal Voltage	51	.2 V		5.12kWh (51.2V 100Ah)		
Nominal Capacity	10	00Ah		0.50	25° C ± 2° C 2 5 2 C5V	
Nominal Energy	5.12	kWh		0.5C 25° C±2° C 2.5-3.65V		
Battery Type			LF	P		
Max. Number of Parallel			1	6		
Charging limit voltage (Umax)			58.	4V		
Discharge Cut-off Voltage (Umin)			44.	8 V		
Cooling Method		Natural Cooling			oling	
Rated Charging Current	50	0A			25° C±2° C, 0.5C	
Maximum Continuous Charging Current	80	80A			25° C±2° C, 1C	
Rated Discharge Current	50A				0.5C	
Maximum Continuous Discharge Current	80	DΑ			25° C±2° C, 1C	
Weight	51.5kg	g±1kg		/		
Waterproof Grade	IP.	40		/		
Warranty Period	5 Ye	ears				
Life Cycle	6000	Cycles		Capacity Retention: ≥ 70% (@90% DOD,0.5C,25° C)		
Operation	Charging Temperat	cure	0~60	O° C	/	
Temperature	Discharging Tempera	ature	-20-60° C		/	
Storage	>1 month		0~35° C		Delivery SOC status	
Temperature	≤ 1 month -20~		-20~4	-45° C		

[—]Technical parameters are as shown in table above—



High-voltage Stackable Batteries

1P32S-HV SERIES



7*24h intelligent monitoring



Remote operation & maintenance





Easy installation



Flexible capacity expansion

- 5.12kWh
- 10.24kWh
- 15.36kWh
- 20.48kWh



appearance diagram of i² residential high-voltage stackable batteries product



Battery pack quantity	1	2	3	4		
Nominal energy (kWh)	5.12	10.24	15.36	20.48		
Available energy (90% DOD) (kWh)	4.60	9.22	13.82	18.43		
Rated voltage (V)	102.4	204.8	307.2	409.6		
Working voltage range (V)	86.4~116.8	160~233.6	240~350.4	320~467.2		
Dimensions (W*H*H) (mm)	800*375*460	800*545*460	800*715*460	800*885*460		
Weight (kg)	104	164	223	282		
Rated capacity (Ah)	Rated capacity (Ah) 50					
Rated charging/discharging current (A)		25	/ 50			
Max. continuous charging/discharging current (A)		25	/ 50			
Washing to support the (OC)	Charging 0~50					
Working temperature (°C)	Discharging -10~55					
WIFI frequency range (MHz)		2400-	~2483			
Ambient temperature		20~60% (no c	condensation)			
Protection grade		Cla	ss l			
Waterproof grade		IP	54			
Cooling mode		Natural	cooling			
Cycle life (25°C, 0.5C, 90%DOD)	>6000 times					
Communication mode	CAN / RS485 / Wifi					
Quality warranty	10 years					

[—]Technical parameters are as shown in table above—



ZXE-OGL5K-1PEU

SINGLE-PHASE HYBRID INVERTER



Easy to install,smart setting through LCD



Avariety of intelligent working modes



Remote monitoring via APP or Web



Support BMS communication



Support parallel operation up to 9 units



Can work with out battery



- IP20
- 2-Year Warranty



appearance diagram of i² residential single-phase hybrid inverter



Model	ZXE-OGL5K-1PEU
ACINPUT	
Rated Voltage	208/220/230/240Va.c.,L+N+PE
Rated Frequency	50 Hz/60 Hz
Current(Maximum Continuous)	40Aa.c.
INVERTER OUTPUT	
Rated Power	5 kW
Rated Voltage	208/220/230/240Va.c.,L+N+PE
Power Factor	1
Wave Form	Pure Sine Wave
Switch Time	<10ms(Typical)
nverter Efficiency(Peak)	>94%
Current(Maximum Continuous)	22.7Aa.c.
Maximum Output Overcurrent Protection	102%~110%1min/110%~130%10s/130%~150%3s/150%0.2s
BATTERY	
Battery Type	Lithium/Lead-acid
Rated Battery Voltage	48Vd.c.
Battery Voltage Range	42~56.4Vd.c.
Max.Charge Current	80Ad.c.
PV INPUT	
No.of MPPT Tracker/Strings	1/1
Max.PVArray Power	6 kW
Max.DC Voltage	500Vd.c.
MPPT Voltage Range	120~430Vd.c.
Start-up Voltage	120Vd.c.
MPPT Maximum Charge Current	80Ad.c.
Max.Input Current	18Ad.c.
Isc PV(Absolute Maximum)	22Ad.c.
PROTECTION&FEATURE	
Parallel Function	Yes(up to 9pcs,optional)
Protection Degree	P20,Indoor only
Certifications	CE(IEC62109-1),EN61000 NRS
Other Protection	Overload,Over temperature,Short circuit
GENERAL PARAMETER	•
Storage Temperatue	15°C~+60°C
Operating Temperature	-10°C~+50°C
Humidity	20%~95%(Non-condensing)
Operating Altitude	4000m(>1000 m Derating)
Noise	<50 dB
Machine Dimensions (W*H*D)	315*470*120 mm
Machine Weight/N.W.	8.6 kg
DISPLAY AND COMMUNICATION	'0
Display	LCD Display (Display Running Mode,Loads/Input/Output etc.)
Interface	RS485/CAN/Dry Contact/WiFi(Optional)

—Technical parameters are as shown in table above—



High Voltage Hybrid Lnverter ZXE-HH5K~10K-3PEU

18₄

Max. PV input current

110% AC overloading

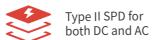
100% Unbalanced Loads



≤20ms transfer time



Support AC retrofit application





Support parallel connection



- IP65
- 10-Year Warranty



appearance diagram of i² high voltage hybrid inverter



PV Input Max. Recommended PV Power [Wp]	ZXE-HH5K-3PEU	ZXE-HH6K-3PEU	ZXE-HH8K-3PEU	ZXE-HH10K-3PE					
May Recommended PV Power (Wn)									
Max. Recommended I v Fower [WP]	7500	9000	12000	15000					
Max. PV Power for Single MPPT [Wp]	7500	9000	9000	9000					
Max. PV Input Voltage [V]	1000								
MPPT Voltage Range [V]		160 ~ 950							
Rated PV Input Voltage [V]		600							
Start-up Voltage [V]		1	60						
No. of MPP Trackers			2						
No. of Input Strings per Tracker			1						
Max. PV Input Current [A]		18	/ 18						
Max. Short-circuit Current [A]		23	/ 23						
AC Output									
Max. AC Output Apparent Power [VA]	5500	6600	8800	11000 ^[1]					
Rated AC Output Power [W]	5000	6000	8000	10000[1]					
Max. AC Output Current [A]	7.6	9.1	12.2	15.2 ^[1]					
Rated AC Output Current [A]	7.2	8.7	11.5	14.4[1]					
Rated AC Voltage [V]	1.2		/ 380, 230 / 400	14.4					
Grid Frequency [Hz]		5/ N / FE, 220							
Adjustable Power Factor [cosφ]									
			~ 0.8 lagging 3%						
Output THDi (@Rated Output)			J 70						
AC Input									
Max. AC Input Apparent Power [VA]	10000	12000	16000	20000					
Max. AC Input Current [A]	15.2	18.2	24.3	30.4					
Rated AC Voltage [V]			/ 380, 230 / 400						
Grid Frequency [Hz]		50	/ 60						
Battery									
Battery Type		Lith	nium						
Battery Voltage Range [V]			~ 700						
Max. Charging / Discharging Current [A]			/30						
Max.Charging / Discharging Power [W]	10000 / 5000	10000 / 6000	10000 / 8000	10000 / 10000					
Communication Interface			AN						
		-							
Backup Output (With Battery)	5000	2000	2000	*****					
Rated Output Power [W]	5000	6000	8000	10000					
Rated Output Voltage [V]			/ 380, 230 / 400						
Rated Frequency [Hz]			/ 60						
Rated Output Current [A]	7.6	9.1	12.2	15.2					
Output THDv (@Linear Load)			3%						
Automatic Switch Time [ms]			20						
Peak Apparent Power, Duration [VA, s]	7500, 60	9000, 60	12000, 60	15000, 60					
Efficiency									
Max. Efficiency	98.0%	98.0%	98.0%	98.0%					
Euro Efficiency	97.7%	97.7%	97.7%	97.7%					
Max. Battery Charge / Discharge Efficiency	97.6%	97.6%	97.6%	97.6%					
Protection									
DC Insulation Monitoring		Inter	grated						
Input Reverse Polarity Protection			grated						
Anti-island Protection			grated						
Residual Current Monitoring			grated						
Over-heat Protection	-		grated						
AC Overcurrent Protection	-		grated						
AC Short-circuit Protection			grated						
AC Overvoltage Protection			grated						
DC Surge Protection			ed (Type II)						
AC Surge Protection			ed (Type II)						
DC Switch									
		integ	grated						
General Data									
Dimensions (W * H * D) [mm]			12 * 186						
Weight [kg]			27						
Display			OLED						
Communication			Optional: WiFi, 4G, Ethernet						
			~ +60						
Operating Temperature Rang€[100%						
Relative Humidity			2000						
Relative Humidity Operating Altitude [m]		<	15						
Relative Humidity	Transformerless								
Relative Humidity Operating Altitude [m]		Transfo	Natural						
Relative Humidity Operating Altitude [m] Standby Self-consumption [W]									
Relative Humidity Operating Altitude [m] Standby Self-consumption [W] Topology		Na							
Relative Humidity Operating Altitude [m] Standby Self-consumption [W] Topology Cooling		Nai IF	tural						
Relative Humidity Operating Altitude [m] Standby Self-consumption [W] Topology Cooling Ingress Protection Noise [dB]		Nai IF	tural P65						
Relative Humidity Operating Altitude [m] Standby Self-consumption [W] Topology Cooling Ingress Protection Noise [dB] Certifications & Standards	AC 4777 FM FAC A A T T T T T T T T T T T T T T T T T	Na IF <	tural 265 35	DE0126 LINE 217002/2004					
Relative Humidity Operating Altitude [m] Standby Self-consumption [W] Topology Cooling Ingress Protection	AS 4777, EN 50549-1, EN 50	Nai IF < 549-PL, EN 50549-GR, EN 50549-CZ,	tural P65	DE0126, UNE 217002/RD647					

^[1] The Max. AC output apparent power & Max. AC output current of N3-HV-10.0-A is 11000VA & 15.2A.



Single Phase Low Voltage Energy Storage Inverters

ZXE-HL(3-8)*K*-1*PEU*



Generator-compatible to extend backup duration during grid power outage



Multiple inverters can operate together to form a microgrid



Supports dual backup ports for intelligent control of critical and non-critical loads



10 seconds of 200% overload capability



Automatic switchover time is < 4ms,providing seamless transitions from grid to backup



Ensures excellent power supply stability, keeping the load unaffected by a weak grid or generator supply fluctuations



• 3.6K

• 5K

• 6K

• 8K



appearance diagram of i² single phase low voltage energy storage inverters



New 1.5 kW 1.5 kW 1.5 kW 1.5 kW 1.2 kW 1.5 kW 1.2	Models	3K	3.6K	5K	6K	8K				
As was believed proposed A	Input DC (PV side)									
Max. input voltage	Recommended max. PV array size	6 kW	7.2 kW	10 kW	12 kW	16 kW				
1884 1884	Max. usable PV input power	4.8 kW	5.76 kW	8 kW	9.6 kW	12.8 kW				
Markup voltage 90 V	Max. input voltage	500 V								
### PFT vollage range	Rated voltage		330 V							
Max. Input current 1.6 A / 1.6 A 32 A / 123 A 32 A 3	Start-up voltage		90 V							
Ass. short circuit current 20 A / 20 A 40 A / 40 A	MPPT voltage range			90 - 435 V						
### 12/2	Max. input current		16 A	/ 16 A		32 A / 32 A				
Sattery y	Max. short circuit current		20 A	/ 20 A		40 A / 40 A				
Li-lon Lead-acid	MPPT number / Max. input strings number									
Safety violage ange	Battery		<u>'</u>							
Ask. Charge / discharge power 3 kW 3.6 kW 5 kW 6 kW 8 kW	Battery type			Li-ion / Lead-acid						
Max. charge current	Battery voltage range			40 - 60 V						
Max. charge discharge current 70 A 80 A 111 A 135 A 190 A 10 CAN / RS485		3 kW	3.6 kW	5 kW	6 kW	8 kW				
CAN / R5485 Dubtput AC (Grid side)	Max. charge / discharge current	70 A	80 A	112 A	135 A	190 A				
Date	Communication			CAN / RS485						
SkW SkW SkW SkW	Output AC (Grid side)			,						
Departion phase L/N/PE 220 1/230 V Stated grid voltage 220 1/230 V Stated grid voltage 220 1/230 V Stated grid frequency 13.7 A 13.1 A 16.4 A 15.7 A 22.8 A 21.8 A 27.3 A 26.1 A 36.4 A 34.8 I 24.8 A 27.3 A	Rated output power	3 kW	3.6 kW	5 kW	6 kW	8 kW				
Departion phase L/N/PE 220 1/230 V Stated grid voltage 220 1/230 V Stated grid voltage 220 1/230 V Stated grid frequency 13.7 A 13.1 A 16.4 A 15.7 A 22.8 A 21.8 A 27.3 A 26.1 A 36.4 A 34.8 I 24.8 A 27.3 A	Max. apparent output power									
State grid voltage 220 V / 230 V State grid voltage State grid frequency SO Hz / 60 Hz State grid frequency SO Hz / 60 Hz State grid voltage SO Hz / 60 Hz State grid voltage SO Hz / 60 Hz SO Hz / 60 Hz / 60 Hz SO Hz / 60 Hz / 60 Hz SO Hz / 60					1	-				
Solitary										
13.7 A / 13.1 A 16.4 A / 15.7 A 22.8 A / 21.8 A 27.3 A / 26.1 A 36.4 A / 34.8 A				· · · · · · · · · · · · · · · · · · ·						
Max. output current	<u> </u>	13.7 A / 13.1 A	16.4 A / 15.7 A	· · · · · · · · · · · · · · · · · · ·	27.3 A / 26.1 A	36.4 A / 34 8 A				
Power factor		-	·		·					
Max Input AC (Grid side)	•	23.17() 23.27(30.171/31.07				
### Description of Control Side 187 - 253 V 187 - 253			. 5 55 5							
Age				~ Z 70						
Max. input current 21 A 25 A 32 A 40 A 50 A	· · · · · · · · · · · · · · · · · · ·			197 - 253 V						
Trequency range		21 A	25 /		40 A	50 A				
Dutput AC (Back-up)	•	21 A	23 A		40 A	30 A				
Rated output power	_ · · · · · · · · · · · · · · · · · · ·			45 - 55 HZ / 55 - 65 HZ						
Again Agai		2144	2 C I-W	r Law	CLAN	0 1-14/				
Sack-up switch time		3 KW				8 KW				
Rated output voltage L/N/PE, 220 V / 230 V Rated frequency 50 Hz / 60 Hz Rated output current 13.7 A / 13.1 A				-	0 \$					
Rated frequency Rated output current 13.7 A / 13.1 A 16.4 A / 15.7 A 22.8 A / 21.8 A 27.3 A / 26.1 A 36.4 A / 34.8 A 35 A 40 A 40 A 50 A 50 A 67.0 MeV (e)linear load) Rated output current 35 A 35 A 35 A 40 A 40 A 40 A 50 A 50 A 67.0 MeV (e)linear load) Rate ficiency Rat	•									
Rated output current 13.7 A / 13.1 A 16.4 A / 15.7 A 22.8 A / 21.8 A 27.3 A / 26.1 A 36.4 A / 34.8 A 40x. A C passthrough current 35 A 35 A 40 A 40 A 50 A HDV (Qlinear load) < 2% HDV (Qlinear load) < 2% HDV (Qlinear load)										
Max. AC passthrough current 35 A 35 A 40 A 40 A 50 A	· · ·	40.74./40.44	10.44/45.74		07.04./00.44	20.44/2424				
Ifficiency Max. efficiency Max. efficiency U efficiency 36.2% 20 efficiency 36.1% SAT Charged by PV / AC max. efficiency 37.2% SAT discharged to AC max. efficiency 38.8% SAT discharged to AC max. efficiency 38.8% SAT discharged to AC max. efficiency 39.8% SAT discharged to AC max. efficiency 495.3% SAT discharged to AC max. efficiency 39.8% SAT discharged to AC max. efficiency 30 previous of the sat	· · · · · · · · · · · · · · · · · · ·		·	· · · · · · · · · · · · · · · · · · ·	·					
### Connection #### Connection #### Connection #### Connection #### Connection #### Connection #### Connection ##### Connection ###################################		35 A	35 A		40 A	50 A				
Max. efficiency 96.2% EU efficiency 96.1% SAT charged by PV / AC max. efficiency 95.3% / 93.9% SAT discharged to AC max. efficiency 93.8% Protection Ground fault monitoring Yes DC reverse-polarity protection Yes OC Reverse-p				< 2%						
EU efficiency BAT charged by PV / AC max. efficiency BAT charged by PV / AC max. efficiency 95.3% / 93.9% Portection Fround fault monitoring Yes CI reverse-polarity protection Protection class / Over voltage category From the protection standard Prote										
ATC charged by PV / AC max. efficiency BAT discharged to AC max. efficiency 93.8% Protection Ground fault monitoring Cor reverse-polarity protection Protection Cass / Over voltage category Formula Data Dimensions (W × H × D) Protection Superating ambient temperature range Ingress protection Protection Caosing Concept Natural cooling Max. operation altitude Resided y. Page A. Data Superation										
Protection Ground fault monitoring Yes Or reverse-polarity protection Protection (authority protection) Protection (· · · · · · · · · · · · · · · · · · ·									
Protection Ground fault monitoring Protection Ground fault monitoring Protection Protection (Serverse-polarity protection) Protection class / Over voltage category Formula (MAINS and BACKUP and GEN) Protection class / Over voltage category Formula (MAINS and BACKUP and GEN) Formula (Main (MAINS and BACKUP and GEN) Formula (MAINS and BACKUP and										
Ground fault monitoring C reverse-polarity protection Per soluting and AFCI 2.0 Optional Protection class / Over voltage category Other and BAT), III (PV and BAT), III (MAINS and BACKUP and GEN) General Data Dimensions (W × H × D) Object at 1				93.8%						
Of reverse-polarity protection Integrated AFCI 2.0 Integrated AFCI										
Integrated AFCI 2.0 Optional Protection class / Over voltage category I / II (PV and BAT), III (MAINS and BACKUP and GEN) General Data Dimensions (W × H × D) Weight 23 kg 23.5 kg Topology High frequency isolation (for battery) Operating ambient temperature range -40 ~ +60°C Ingress protection IP66 Cooling concept Natural cooling Max. operation altitude Torid connection standard NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150 Gafety / EMC standard IEC/EN 62109-1/-2, EN 61000-6-2/-3 Features OC connection MC4 plug (PV port) / Terminal Block (BAT port) AC connection Terminal Block Oisplay 7.0" LCD display & Bluetooth + APP	Ground fault monitoring									
Protection class / Over voltage category General Data Dimensions (W × H × D) Weight 23 kg Topology Diperating ambient temperature range Diagness protection Cooling concept Max. operation altitude First connection standard NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150 Features DC connection MC4 plug (PV port) / Terminal Block (BAT port) AC connection Terminal Block Tour LCD display & Bluetooth + APP	DC reverse-polarity protection									
Seneral Data Dimensions (W × H × D) Signature of the seneral Data Dimensions (W × H × D) Dimensions (W × H × D) Diverating ambient temperature range Diperating	Integrated AFCI 2.0			•						
Dimensions (W × H × D) Weight 23 kg 23.5 kg Topology High frequency isolation (for battery) Deparating ambient temperature range 1-40 ~ +60°C IP66 Cooling concept Natural cooling Max. operation altitude Topic connection standard NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150 Safety / EMC standard IEC/EN 62109-1/-2, EN 61000-6-2/-3 Features OC connection MC4 plug (PV port) / Terminal Block (BAT port) AC connection Terminal Block Topic display & Bluetooth + APP	Protection class / Over voltage category		I / II (PV and	BAT), III (MAINS and BA	CKUP and GEN)					
Weight 23 kg 23.5 kg Topology High frequency isolation (for battery) Operating ambient temperature range -40 ~ +60°C Ingress protection IP66 Cooling concept Natural cooling Intelligent fan-cooling Max. operation altitude 3000 m Grid connection standard NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150 Safety / EMC standard IEC/EN 62109-1/-2, EN 61000-6-2/-3 Features OC connection MC4 plug (PV port) / Terminal Block (BAT port) AC connection Terminal Block Display 8 Bluetooth + APP	General Data									
High frequency isolation (for battery) Operating ambient temperature range Operating ambient temperature range Operating ambient temperature range Ocoling concept Ocoling co	Dimensions (W \times H \times D)			335 × 560 × 253 mm	1					
Operating ambient temperature range -40 ~ +60 °C IP66 Cooling concept Natural cooling Max. operation altitude Order of the connection standard NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150 Safety / EMC standard IEC/EN 62109-1/-2, EN 61000-6-2/-3 Features OC connection MC4 plug (PV port) / Terminal Block (BAT port) AC connection Terminal Block Oisplay 7.0" LCD display & Bluetooth + APP	Weight		23 kg		23.	5 kg				
Ingress protection Cooling concept Natural cooling Max. operation altitude Grid connection standard NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150 Greety / EMC standard IEC/EN 62109-1/-2, EN 61000-6-2/-3 Features OC connection MC4 plug (PV port) / Terminal Block (BAT port) AC connection Terminal Block Oisplay 7.0" LCD display & Bluetooth + APP	Гороlogy		High	frequency isolation (for	battery)					
Natural cooling oncept Natural cooling	Operating ambient temperature range			-40 ~ +60°C						
Max. operation altitude 3000 m Grid connection standard NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150 Gafety / EMC standard IEC/EN 62109-1/-2, EN 61000-6-2/-3 Features OC connection MC4 plug (PV port) / Terminal Block (BAT port) AC connection Terminal Block Display 7.0" LCD display & Bluetooth + APP	ngress protection			IP66						
Max. operation altitude 3000 m Grid connection standard NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150 Gafety / EMC standard IEC/EN 62109-1/-2, EN 61000-6-2/-3 Features OC connection MC4 plug (PV port) / Terminal Block (BAT port) AC connection Terminal Block Display 7.0" LCD display & Bluetooth + APP	Cooling concept		Natural cooling		Intelligent	fan-cooling				
Safety / EMC standard NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 6183, EN 50530, MEA, PEA, NBR 16149, NBR 16150 Safety / EMC standard IEC/EN 62109-1/-2, EN 61000-6-2/-3 Features OC connection MC4 plug (PV port) / Terminal Block (BAT port) AC connection Terminal Block Display 7.0" LCD display & Bluetooth + APP	Max. operation altitude			3000 m	, 3					
Safety / EMC standard IEC/EN 62109-1/-2, EN 61000-6-2/-3 Features DC connection MC4 plug (PV port) / Terminal Block (BAT port) AC connection Terminal Block Display 7.0" LCD display & Bluetooth + APP	Grid connection standard	NRS 097-2-1	1, IEC 62116, IEC 61727.		N 50530, MEA, PEA. NBR	16149, NBR 16150				
Features DC connection MC4 plug (PV port) / Terminal Block (BAT port) AC connection Terminal Block Display 7.0" LCD display & Bluetooth + APP						.,				
DC connection MC4 plug (PV port) / Terminal Block (BAT port) AC connection Terminal Block Display 7.0" LCD display & Bluetooth + APP	* *	I	120/1		, -					
AC connection Terminal Block Display 7.0" LCD display & Bluetooth + APP			MC4 nlug	(PV port) / Terminal Blo	ck (BAT port)					
Display 7.0" LCD display & Bluetooth + APP			MC4 plug		ck (DAI poit)					
			7.011		s ± ADD					
Communication RS485, CAN, Optional: Wi-Fi, GPRS, LAN	Display Communication									

—Technical parameters are as shown in table above—





Solution •

Family house PV + energy storage





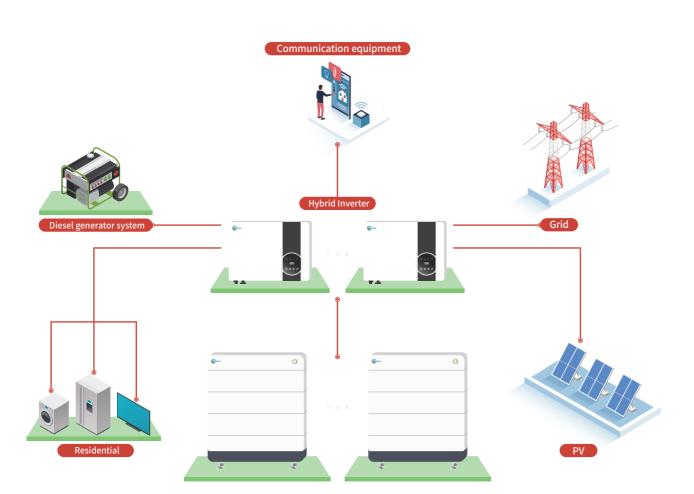


Solution •

Family house solar energy storage system

System characteristics:

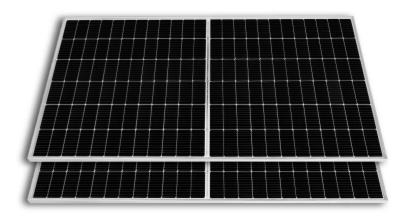
- Applicable to all common glazed tile roof, the tiles at different height, has high adjustability of Rack mounting and easy installation
- The materials of main load-bearing parts can be selected according to the load and specification, to control the bracket cost effectively while ensuring the structural safety
- The stainless steel and the aluminum alloy that has anodic oxidation treatment are used, to have stylish appearance and excellent resistance to corrosion



topological graph of family house pv + energy storage

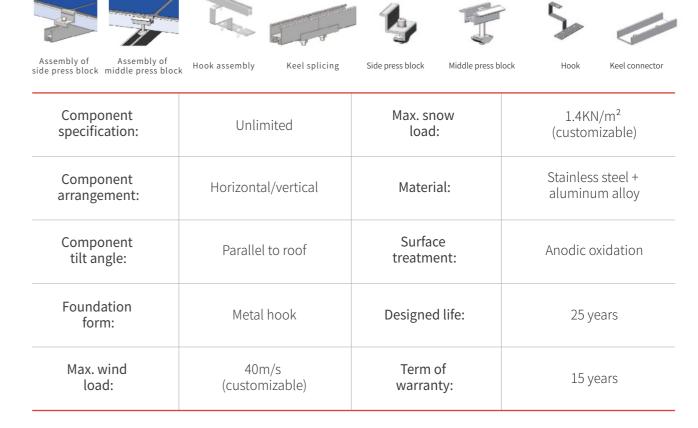
Half-piece double-sided double-glass modules:

• 535W MBB



-Product diagram-

PV module:



—Parameters are shown in table above—



Commercial & Industrial Energy Storage All In One System 1P260S SERIES



Cell of three "high" energy storage



Intelligent fire control



Safe and efficient PCS



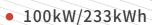
Cabinet temperature difference ≤3°C



High integration



Support access to cloud platform



• 125kW/261kWh



appearance diagram of i² commercial & industrial energy storage all in one system cabinet



Estated capacity 2000b Cycle life >60000 times		DC parameters (280Ah)						
Rated capacity 2004h Cycle life > 50000 times Rated energy 232,95kWh Fire system Perfluors firefighting Rated voltage 7287-9389 Detector type Smoke, temperature, carbon moroade, VDC Voltage range 7287-9389 Charging/discharging conversion time <100ms Combination mode 1º2005 AC parameters Rated output voltage 4000xC Power factor 0.199-10.99 Rated output frequency 5081/60812 System efficiency 980% Rated output frequency 5081/60812 System efficiency 980% Rated output frequency 5081/60812 System efficiency 980% Rated output frequency 5081/60812 System efficiency 100% System parameters Application altitude 42000m Solution for the system of th	Battery type	Lithium iron phosphate		Battery compartment liquid cooling				
Rated entery 222 964Wh Fire system Perfluor fireflighting 8ated vallage 832V Detector type Sancke, temporature, carbon monoade, VOC Voltage range 7280–938V Charging/discharging conversion time < 1,00ms **Combination mode P266S			-	-				
Rated output power 128V Detector type Smoke, temperature, carbon monoxide, VOC Voltage range 728V—938V Charging discharging conversion time < 100ms **Combination mode** **AC parameters** **Rated output voltage 400VAC Power factor 9,099—0,099 **Rated output requency 50Hz/16Hz System efficiency 9,89% **Rated output power 125KVA Offi grid output THDU \$3% (linear full load) **Distortion factor of current voltal hamous 525KVA Offi grid output THDU \$3% (linear full load) **Distortion factor of current voltal hamous 525KVA Offi grid output THDU \$3% (linear full load) **Distortion factor of current voltal hamous 525KVA Offi grid output THDU \$3% (linear full load) **Distortion factor of current voltal hamous 525KVA Offi grid output THDU \$3% (linear full load) **Distortion factor of current voltal hamous 525KVA Offi grid output THDU \$3% (linear full load) **Distortion factor of current voltal full representation of control voltage range 725KVA Offi grid output THDU \$25KVA Offi grid \$25KVA Offi grid \$38 (linear full load) **Distortion factor of current voltage 400V/AC Power factor 925KVA Offi grid 925KVA Offi 925KVA Offi grid 925KVA Offi 925KV								
Voltage range 728V-936V Charging/discharging conversion time <100ms								
AC parameters								
Rated output voltage			Charging/discharging conversion time	< 100ms				
Rated output requency 400V/LC Power factor -0.99→+0.99 Rated output requency 50Hz/69Hz System efficiency >889% Rated AC output power 125KVA Off-grid output ThDU <3% (linear full load)	Combination mode	1P260S						
Rated output frequency Solita Sol								
Distortion factor of current total harmonic Carlo	Rated output voltage	400VAC	Power factor	-0.99~+0.99				
Distortion factor of current total harmonic System parameters System life \$15 years Application altitude \$2000m Working temperature -20°C~50°C Cabinet weight \$2600kg Ambient humidity \$5956 Cabinet dimensions (W°D°H mm) 1200/1509/2350 IP protection grade 1P54 Communication port R5-485/R145Ethernet Anti-corrosion grade C4 Running mode 3-phase 4-wire, on-grid, off-grid DC parameters (314Ah) Battery type Lithium iron phosphate Cooling mode Battery compartment liquid cooling Rated capacity 314Ah Cycle life \$6000 times Rated energy 261.7468Wh Fire system Perfluor of ireflighting Rated energy 261.7468Wh Fire system Perfluor of ireflighting Rated output grange 7280~390V Charging/discharging conversion time \$100ms Combination mode 1P260S AC parameters Rated output voltage 400V/C Power factor 0.99~40.99 Rated output frequency 50H2/60Hz System efficiency \$8996 Rated Output power 125KVA Off-grid output THDU \$3% (linear full load) Distortion factor of current \$396 Unbalanced load capacity 100% System life \$15 years Application altitude \$2000m Working temperature -20°C~50°C Cabinet weight \$2680kg Ambient humidity \$996 Cabinet dimensions (W°O'H mm) 1200°1500°2350 IP protection grade 1P54 Communication port R8-485/RJ45Ethernet	Rated output frequency	50Hz/60Hz	System efficiency	≥89%				
System parameters System life	Rated AC output power	125KVA	Off-grid output THDU	≤3% (linear full load)				
System life ≥15 years Application altitude ≤2000m Working temperature 2-20°C Cabinet weight ≤2600kg Ambient humidity ≤95% Cabinet dimensions (W°D°H mm) 1200°1500°2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet Anti-corrosion grade C4 Running mode 3-phase 4-wire, on-grid, off-grid DC parameters (314Ah) Battery type Lithium iron phosphate Cooling mode Battery compartment liquid cooling Rated capacity 314Ah Cycle life ≥6000 times Rated energy 261.248kWh Fire system Perfluoro firelighting Rated vitage 832V Detector type Smoke, temperature, carbon monoxide, VOC Voltage range 728V-936V Charging/discharging conversion time < 100ms Combination mode 19260S AC parameters Rated output voltage 400VAC Power factor -0.99~10.99 Rated output frequency 50H±/60H± System efficiency ≥89% Rated AC output power 125KVA Off-grid output THDU ≤3% (linear full load) Distortion factor of current total harmonic System parameters System life ≥15 years Application altitude ≤2000m Working temperature -20°C~50°C Cabinet weight ≤2600kg Ambient humidity ≤95% Cabinet dimensions (W°D°H mm) 1200°1500°2350 IP protection grade IP54 Communication port R5-485/RJ45Ethernet		<3%	Unbalanced load capacity	100%				
Working temperature -20°C - 50°C Cabinet weight ≪ 2600kg Ambient humidity ≪ 95% Cabinet dimensions (W°D°H mm) 1200°1500°2350 IP protection grade IP54 Communication port R5-485/RJ45Ethernet Anti-corrosion grade C4 Running mode 3-phase 4-wire, on-grid, off-grid DC parameters (314Ah) Battery type Lithium iron phosphate Cooling mode Battery compartment liquid cooling Rated capacity 314Ah Cycle life >6000 times Rated energy 261.248kWh Fire system Perfluoro fireflighting Rated voltage 832V Detector type Smoke, temperature, carbon monoxide, VOC Voltage range 728V~936V Charging/discharging conversion time < 100ms			System parameters					
Ambient humidity \$95% Cabinet dimensions (WPD*H mm) 1200*1500*2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet Anti-corrosion grade C4 Running mode 3-phase 4-wire, on-grid, off-grid DC parameters (314Ah) Battery type Lithium iron phosphate Cooling mode Battery compartment liquid cooling Rated capacity 314Ah Cycle life >6000 times Rated energy 261.248kWh Fire system Perfluoro firefighting Rated voltage 832V Detector type Smoke, temperature, carbon monoxide, VOC Voltage range 728V~938V Charging/discharging conversion time <100ms Combination mode 1P260S AC parameters Rated output voltage 400VAC Power factor -0.99~+0.99 Rated output frequency 50Hz/60Hz System efficiency >889% Rated AC output power 125KVA Off-grid output THDU \$3% (linear full load) Distortion factor of current total harmonic System parameters System life \$15 years Application altitude \$2000m Working temperature -20°C~50°C Cabinet weight \$2600kg Ambient humidity \$95% Cabinet dimensions (W*D*H mm) 1200*1500*2350 IP protection grade IP54 Communication port R5-485/RJ45Ethernet	System life	≥15 years	Application altitude	≤2000m				
IP protection grade	Working temperature	-20°C~50°C	Cabinet weight	≤2600kg				
Anti-corrosion grade C4 Running mode 3-phase 4-wire, on-grid, off-grid DC parameters (314Ah) Battery type Lithium iron phosphate Cooling mode Battery compartment liquid cooling Rated capacity 314Ah Cycle life >6000 times Rated energy 261-248kWh Fire system Perfluoro firefighting Rated voltage 832V Detector type Smoke, temperature, carbon monoxide, VOC Voltage range 728V~930V Charging/discharging conversion time < 100ms Combination mode 1P260S AC parameters Rated output voltage 400VAC Power factor -0.99~40.99 Rated output frequency 50H2/60H2 System efficiency >89% Rated AC output power 125KVA Off-grid output THDU \$3% (linear full load) Distortion factor of current total harmonic \$3% Unbalanced load capacity 100% System parameters System life >15 years Application altitude \$2000m Working temperature -20°C~50°C Cabinet weight \$2000m RS 5485/RJ45Ethernet	Ambient humidity	≤95%	Cabinet dimensions (W*D*H mm)	1200*1500*2350				
Battery type Lithium iron phosphate Cooling mode Battery compartment liquid cooling Rated capacity 314Ah Cycle life ≥6000 times Rated energy 261.248kWh Fire system Perfluoro firefighting Rated voltage 832V Detector type Smoke, temperature, carbon monoxide, VOC Voltage range 728V~936V Charging/discharging conversion time < 100ms Combination mode 1P260S AC parameters Rated output voltage 400VAC Power factor -0.99~+0.99 Rated output requency 50Hz/60Hz System efficiency ≥89% Rated AC output power 125KVA Off-grid output THDU ≤3% (linear full load) Distortion factor of current total harmonic <3% Unbalanced load capacity 100% System parameters System life ≥15 years Application altitude ≤2000m Working temperature -20°C~50°C Cabinet weight ≤2600kg Ambient humidity ≤95% Cabinet dimensions (W°D°H mm) 1200°1500°2250 IP protection grade IP54 Communication port RS-485/RJ45Ethernet	IP protection grade	IP54	Communication port	RS-485/RJ45Ethernet				
Battery type Lithium iron phosphate Cooling mode Battery compartment liquid cooling Rated capacity 314Ah Cycle life ≥6000 times Rated energy 261.248kWh Fire system Perfluoro firefighting Rated voltage 832V Detector type Smoke, temperature, carbon monoxide, VOC Voltage range 728V~936V Charging/discharging conversion time <100ms Combination mode 1P260S AC parameters Rated output voltage 400VAC Power factor -0.99~+0.99 Rated output frequency 50Hz/60Hz System efficiency ≥89% Rated AC output power 125KVA Off-grid output THDU ≤3% (linear full load) Distortion factor of current total harmonic 3% Unbalanced load capacity 100% System parameters System life ≥15 years Application altitude ≤2000m Working temperature -20°C~50°C Cabinet weight ≤2600kg Ambient humidity ≤95% Cabinet dimensions (W°D°H mm) 1200°1500°2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet	Anti-corrosion grade	C4	Running mode	3-phase 4-wire, on-grid, off-grid				
Rated capacity 314Ah Cycle life >6000 times Rated energy 261.248kWh Fire system Perfluoro firefighting Rated voltage 832V Detector type Smoke, temperature, carbon monoxide, VOC Voltage range 728V~936V Charging/discharging conversion time < 100ms Combination mode 1P260S AC parameters Rated output voltage 400VAC Power factor -0.99~+0.99 Rated output frequency 50Hz/60Hz System efficiency >89% Rated AC output power 125KVA Off-grid output THDU \$3% (linear full load) Distortion factor of current total harmonic \$3% Unbalanced load capacity 100% System life >15 years Application altitude \$2000m Working temperature -20°C~50°C Cabinet weight \$2600kg Ambient humidity \$95% Cabinet dimensions (W°D°H mm) 1200°1500°2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet			DC parameters (314Ah)					
Rated energy 261.248kWh Fire system Perfluoro firefighting Rated voltage 832V Detector type Smoke, temperature, carbon monoxide, VOC Voltage range 728V~936V Charging/discharging conversion time < 100ms	Battery type	Lithium iron phosphate	Cooling mode	Battery compartment liquid cooling				
Rated voltage 832V Detector type Smoke, temperature, carbon monoxide, VOC Voltage range 728V~936V Charging/discharging conversion time < 100ms	Rated capacity	314Ah	Cycle life	≥6000 times				
Voltage range 728V~936V Charging/discharging conversion time < 100ms AC parameters Rated output voltage 400VAC Power factor -0.99~+0.99 Rated output frequency 50Hz/60Hz System efficiency ≥89% Rated AC output power 125KVA Off-grid output THDU ≤3% (linear full load) Distortion factor of current total harmonic <3%	Rated energy	261.248kWh	Fire system	Perfluoro firefighting				
AC parameters Rated output voltage 400VAC Power factor -0.99~+0.99 Rated output frequency 50Hz/60Hz System efficiency ≥89% Rated AC output power 125KVA Off-grid output THDU ≤3% (linear full load) Distortion factor of current total harmonic <3% Unbalanced load capacity 100% System parameters System life ≥15 years Application altitude ≤2000m Working temperature -20°C~50°C Cabinet weight ≤2600kg Ambient humidity ≤95% Cabinet dimensions (W*D*H mm) 1200*1500*2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet	Rated voltage	832V	Detector type	Smoke, temperature, carbon monoxide, VOC				
AC parameters Rated output voltage 400VAC Power factor -0.99~+0.99 Rated output frequency 50Hz/60Hz System efficiency ≥89% Rated AC output power 125KVA Off-grid output THDU ≤3% (linear full load) Distortion factor of current total harmonic System parameters System parameters System life ≥15 years Application altitude ≤2000m Working temperature -20°C~50°C Cabinet weight ≤2600kg Ambient humidity ≤95% Cabinet dimensions (W*D*H mm) 1200*1500*2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet	Voltage range	728V~936V	Charging/discharging conversion time	< 100ms				
Rated output voltage 400VAC Power factor -0.99~+0.99 Rated output frequency 50Hz/60Hz System efficiency ≥89% Rated AC output power 125KVA Off-grid output THDU ≤3% (linear full load) Distortion factor of current total harmonic ≤3% Unbalanced load capacity 100% System parameters System life ≥15 years Application altitude ≤2000m Working temperature -20°C~50°C Cabinet weight ≤2600kg Ambient humidity ≤95% Cabinet dimensions (W*D*H mm) 1200*1500*2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet	Combination mode	1P260S						
Rated Output frequency 50Hz/60Hz System efficiency ≥89% Rated AC output power 125KVA Off-grid output THDU ≤3% (linear full load) Distortion factor of current total harmonic System parameters System parameters System life ≥15 years Application altitude ≤2000m Working temperature -20°C~50°C Cabinet weight ≤2600kg Ambient humidity ≤95% Cabinet dimensions (W*0*H mm) 1200*1500*2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet			AC parameters					
Rated AC output power 125KVA Off-grid output THDU ≤3% (linear full load) Distortion factor of current total harmonic <3%	Rated output voltage	400VAC	Power factor	-0.99~+0.99				
Distortion factor of current total harmonic <3% Unbalanced load capacity 100% System parameters System life ≥15 years Application altitude ≤2000m Working temperature -20°C~50°C Cabinet weight ≤2600kg Ambient humidity ≤95% Cabinet dimensions (W*D*H mm) 1200*1500*2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet	Rated output frequency	50Hz/60Hz	System efficiency	≥89%				
total harmonic System parameters System life ≥15 years Application altitude ≤2000m Working temperature -20°C~50°C Cabinet weight ≤2600kg Ambient humidity ≤95% Cabinet dimensions (W*D*H mm) 1200*1500*2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet	Rated AC output power	125KVA	Off-grid output THDU	≤3% (linear full load)				
System parameters System life ≥15 years Application altitude ≤2000m Working temperature -20°C~50°C Cabinet weight ≤2600kg Ambient humidity ≤95% Cabinet dimensions (W*D*H mm) 1200*1500*2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet		<3%	Unbalanced load capacity	100%				
System life ≥15 years Application altitude ≤2000m Working temperature -20°C~50°C Cabinet weight ≤2600kg Ambient humidity ≤95% Cabinet dimensions (W*D*H mm) 1200*1500*2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet	total natmonic	1	System parameters					
Ambient humidity ≤95% Cabinet dimensions (W*D*H mm) 1200*1500*2350 IP protection grade IP54 Communication port RS-485/RJ45Ethernet	System life	≥15 years	Application altitude	≤2000m				
IP protection grade IP54 Communication port RS-485/RJ45Ethernet	Working temperature	-20°C~50°C	Cabinet weight	≤2600kg				
IP protection grade IP54 Communication port RS-485/RJ45Ethernet	Ambient humidity	≤95%	Cabinet dimensions (W*D*H mm)	1200*1500*2350				
	Anti-corrosion grade	C4	Running mode	3-phase 4-wire, on-grid, off-grid				

[—]Technical parameters are as shown in table above—



Battery System Specification – Mini Grid –102kwh/215kwh **BATTERY CABINET**









• 215kWh



appearance diagram of i² battery system specification – mini grid –102kwh/215kwh



	/_/_/			
Model	ZXE-Box100	ZXE-Box200		
Battery Parameter				
Battery Capacity (kWh)	102	215		
Cell Type/V/Ah	LFP 3.2/100	LFP 3.2/280		
Battery Module Capacity (kWh)	5.12	14.33		
Number of Models	20pcs(10~20pcs Optional)	15pcs(10~15pcs Optional)		
Rate Voltage(V)	512	768		
Voltage Range (V)	448-576	672-864		
System Configuration	2P160S	1P240S		
Charge and Discharge Rate	≤0.5P	≤0.5P		
Cooling Mode	Air cooling/1.5kW	Air cooling/3kW		
General Parameter				
System Efficiency	≥ 94%	≥ 94%		
Operating Temperature Range (°C)	-20-50	-20-50		
Operating Humidity	5%-95%R.H	5%-95%R.H		
IP Rating	IP55	IP55		
Anticorrosion Grade	C4	C4		
Altitude (m)	<3000	<3000		
Dimension:W*D*H (mm)	1200*900*2060	1050*1190*2339		
Weight (T)	1.4	2.3		
Firefighting System	Integrated/Aerosol	Integrated/Aerosol		
Communication Port	CAN, RS485, ETH	CAN, RS485, ETH		

[—]Technical parameters are as shown in table above—



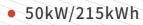
Battery System Specification – Mini Grid – 50kw/102kwh **BATTERY CABINET**













appearance diagram of i² battery system specification – mini grid – 50kw/102kwh



Model	ZXE-Box100-HH50	ZXE-Box200-HH50
Model	ZXE-BOX100-HH30	ZXE-BOXZUU-HH3U
Battery Parameter		
Battery Capacity (kWh)	102	215
Cell Type/V/Ah	LFP 3.2/100	LFP 3.2/280
Rate Voltage(V)	512	768
System Configuration	2P160S	1P240S
Charge and Discharge Rate	≤0.5P	≤0.5P
Cooling Mode	Air cooling/1.5kW	Air cooling/3kW
AC On-grid Parameter		
Rated Charge/Discharge Power (kW)	50	50
Rated Grid Voltage Range (V)	380-400	380-400
Applicable Grid Frequency (Hz)	50/60	50/60
MAX Output Current (A)	83	83
THDi	<3%	<3%
PV Parameter		
MAX. Input Power (kW)	75	75
MPPT Voltage Range (V)	200~850	200~850
General Parameter		
Dimension:W*D*H (mm)	1560*900*2060	1412*1190*2339
Weight (T)	1.5	2.5
Firefighting System	Integrated/Aerosol	Integrated/Aerosol
Communication Port	CAN, RS485, ETH	CAN, RS485, ETH

—Technical parameters are as shown in table above—



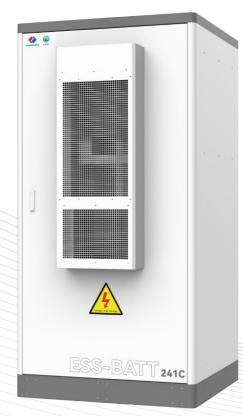
Battery System Specification – Mini Grid – 241kwh BATTERY CABINETAIR COOLING











appearance diagram of i² battery system specification – mini grid – 241kwh



Model	ZXE-Box241-NC
Battery Parameter	
Battery Capacity (kWh)	241
Cell Type/V/Ah	LFP 3.2/314
Battery Module Capacity (kWh)	16.076
Number of Models	15pcs(10~15pcs Optional)
Rate Voltage(V)	768
Voltage Range (V)	672-864
System Configuration	1P240S
Charge and Discharge Rate	≤0.5P
Cooling Mode	Air cooling/3kW
General Parameter	
System Efficiency	≥ 94%
Operating Temperature Range (°C)	-20-50
Operating Humidity	5%-95%R.H
IP Rating	IP55
Anticorrosion Grade	C4
Altitude (m)	<3000
Dimension:W*D*H (mm)	1150*1100*2300
Weight (T)	2.5
Firefighting System	Integrated/Aerosol
Communication Port	CAN, RS485, ETH

—Technical parameters are as shown in table above—



Battery System Specification – Mini Grid – 241kwh 241KWH BATTERY CABINET - LIQUID **COOLING**



241kWh







appearance diagram of i2 battery system specification mini grid - 241kwh



Model	ZXE-Box241-LC				
Battery Parameter					
Battery Capacity (kWh)	241				
Cell Type/V/Ah	LFP 3.2/314				
Battery Module Capacity (kWh)	48.23				
Number of Models	5pcs(3~5pcs Optional)				
Rate Voltage(V)	768				
Voltage Range (V)	672-864				
System Configuration	1P240S				
Charge and Discharge Rate	≤0.5P				
Cooling Mode	Liquid cooling/3kW				
General Parameter					
System Efficiency	≥ 94.5%				
Operating Temperature Range (°C)	-20-50				
Operating Humidity	5%-95%R.H				
IP Rating	IP55				
Anticorrosion Grade	C4				
Altitude (m)	<3000				
Dimension:W*D*H (mm)	1000*1400*2100				
Weight (T)	2.6				
Firefighting System	Integrated/Aerosol				
Communication Port	CAN, RS485, ETH				

—Technical parameters are as shown in table above—



Battery System Specification – Mini Grid – 105kw/241kwh BATTERY SYSTEM AIR COOLING



All In One Design

• 105kW/241kWh



Flexible Deployment



Applicable to Various Scenarios



appearance diagram of i² battery system specification – mini grid – 105kw/241kwh



Model	ZXE-Box241-HH105
Battery Parameter	
Battery Capacity (kWh)	241
Cell Type/V/Ah	LFP 3.2/314
Rate Voltage(V)	768
Voltage Range (V)	672-864
System Configuration	1P240S
Charge and Discharge Rate	≤0.5P
Cooling Mode	Air cooling/3kW
PV Parameter	
Max PV Power (kW)	50*2
Max PV Voltage (V)	600
MPPT Voltage Range (V)	200~600
AC Parameter	
Rate Power (kW)	105
Transformer (kVA)	100
AC Voltage (V)	230/400
Voltage Range	-20%~15%
Grid Frequency Range (Hz)	50/60
Power Factor	0.99
Off grid Function	Automatic switching / manual
General Parameter	
System Efficiency	≥ 88%
Operating Temperature Range (°C)	-20-55
Operating Humidity	5∼95%R.H
IP rating	IP54, C4
Altitude (m)	<3000
Dimension:W*D*H (mm)	1800*1266*2319
Weight (T)	2.9
Firefighting System	Integrated/Aerosol
Communication Port	ETH

—Technical parameters are as shown in table above—





Battery System Specification – Mini Grid – Combined Cabinet OUTDOOR COMBINED CABINET SOLUTION









appearance diagram of i² battery system specification – mini grid – combined cabinet

Model	ZXE-Box215 -HH100	ZXE-Box430 -HH150	ZXE-Box430 -HH250	ZXE-Box645 -HH250	ZXE-Box860 -HH250	ZXE-Box1075 -HH500
Battery Parameter						
Battery Capacity (kWh)	215	430	430	645	860	1075
Cell Type/V/Ah	LFP 3.2/280					
Rate Voltage(V)	768	768	768	768	768	768
System Configuration	1P240S	1P240S*2	1P240S*2	1P240S*3	1P240S*4	1P240S*5
Charge and Discharge Rate	≤0.5P	≤0.5P	≤0.5P	≤0.5P	≤0.5P	≤0.5P
Cooling Mode	Air cooling					
PV Parameter						
Max PV Power (kW)	120 or 180	180 or 240	300 or 360	300 or 360	300 or 360	600 or 720
Max PV Voltage (V)	600	600	600	600	600	600
MPPT Voltage Range(V)	450~600	450~600	450~600	450~600	450~600	450~600
AC Parameter						
Rated Power (kW)	100	150	250	250	250	500
Rated Voltage (V)	400	400	400	400	400	400
Voltage Range (V)	-10%~10%	-10%~10%	-10%~10%	-10%~10%	-10%~10%	-10%~10%
Rated Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
AC Connection	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE
General Parameter						
System Efficiency	≥ 88%	≥ 88%	≥ 88%	≥ 88%	≥ 88%	≥ 88%
Operating Temperature Range (°C)	-20-55	-20-55	-20-55	-20-55	-20-55	-20-55
Operating Humidity	5%-95%R.H	5%-95%R.H	5%-95%R.H	5%-95%R.H	5%-95%R.H	5%-95%R.H
IP Rating	IP54, C4					
Altitude (m)	<3000	<3000	<3000	<3000	<3000	<3000
Dimension:W*D*H (m)	2.65*1.45*2.34	3.7*1.45*2.34	4.5*1.45*2.34	5.55*1.45*2.34	6.6*1.45*2.34	8.95*1.45*2.34
Weight (T)	4.7	6.1	7.4	9.7	11.9	16.3
Firefighting System	Integrated Aerosol					
Communication Port	CAN, RS485, ETH					
Compliance	IEC62619, UN3480					

—Technical parameters are as shown in table above—



Battery System Specification – Mini Grid 20FT ALL IN ONE SOLUTION



Standard 20FT ALL in One Design



Pre-Populate Design for Easy Transportation



Applicable to Various



appearance diagram of i² battery system specification – mini grid – combined cabinet



Model	ZXE-Cube860 -HH500	ZXE-Cube1075 -HH500	ZXE-Cube1290 -HH250	ZXE-Cube645 -HH250
Battery Parameter				
Battery Capacity (kWh)	860	1075	1290	1290
Cell Type/V/Ah	LFP 3.2/280	LFP 3.2/280	LFP 3.2/280	LFP 3.2/280
Rate Voltage(V)	768	768	768	768
System Configuration	1P240S*4	1P240S*5	1P240S*6	1P240S*6
Charge and Discharge Rate	≤0.5P	≤0.5P	≤0.5P	≤0.5P
Cooling Mode	Air cooling	Air cooling	Air cooling	Air cooling
PV Parameter				
Max PV Power (kW)	600/720	600/720	600/720	600/720
Max PV Voltage (V)	600	600	600	600
MPPT Voltage Range(V)	450~600	450~600	450~600	450~600
AC Parameter				
Rated Power (kW)	500	500	250	500
Rated Voltage (V)	400	400	400	400
Voltage Range (V)	-10%~10%	-10%~10%	-10%~10%	-10%~10%
Rated Frequency (Hz)	50/60	50/60	50/60	50/60
AC Connection	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE
General Parameter				
System Efficiency	≥ 88%	≥ 88%	≥ 88%	≥ 88%
Operating Temperature Range (°C)	-20-55	-20-55	-20-55	-20-55
Operating Humidity	5%-95%R.H	5%-95%R.H	5%-95%R.H	5%-95%R.H
IP Rating	IP54, C4	IP54, C4	IP54, C4	IP54, C4
Altitude (m)	<3000	<3000	<3000	<3000
Dimension:W*D*H (mm)	6058*2438*2591	6058*2438*2591	6058*2438*2591	6058*2438*2591
Weight (T)	14	15.5	15.8	17
Firefighting System	Integrated Aerosol	Integrated Aerosol	Integrated Aerosol	Integrated Aerosol
Communication Port	CAN, RS485, ETH	CAN, RS485, ETH	CAN, RS485, ETH	CAN, RS485, ETH
Compliance	IEC62619, UN3536	IEC62619, UN3536	IEC62619, UN3536	IEC62619, UN3536

—Technical parameters are as shown in table above—











Solution •

Industrial and commercial PV + Energy storage





-School-

—Bank—





—Hospital—





Solution •

Shopping mall and market, hospital PV + energy storage

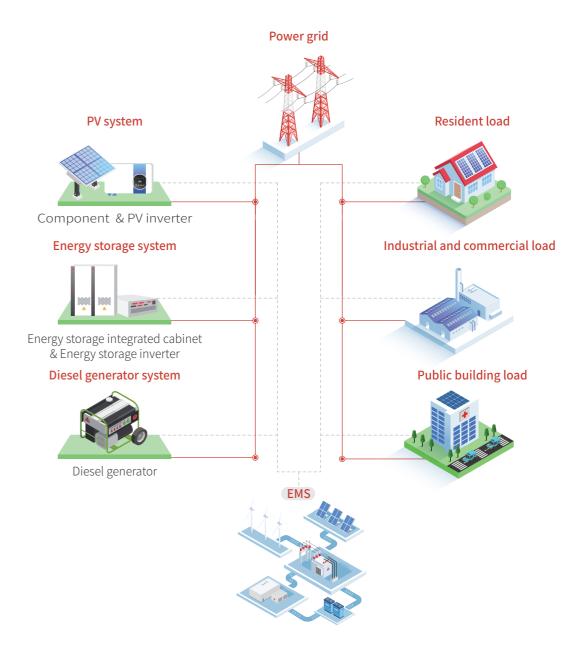


—Application in shopping mall and market—



-Hotel application-

Industrial and commercial PV energy storage diesel power generation system



Topological Graph of Industrial and Commercial PV + Energy Storage





Industrial and commercial energy storage inverter:

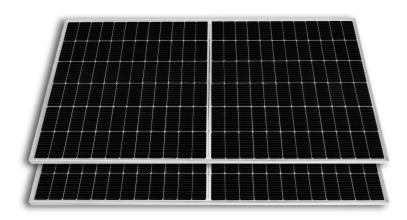
- Silicon carbide semiconductor adopted, with the max. conversion efficiency up to 99%
- PCS and BMU have intelligent integration with high-voltage box, integrated design
- Active/reactive quadrant regulation functions
- Support constant-power, constant-current and constant-voltage control
- Low harmonic control, 3-phase power imbalance governance
- 3-phase 4-wire system, satisfy off-grid use



-Product diagram-

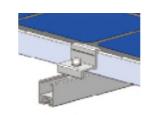
Half-piece double-sided double-glass modules:

• 535W MBB

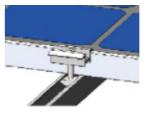


-Product diagram-

PV module:



Assembly of side press block



Assembly of middle press block



Hook assembly



/ Keel splicing



Side press block



Middle press block



Hook



Keel connector

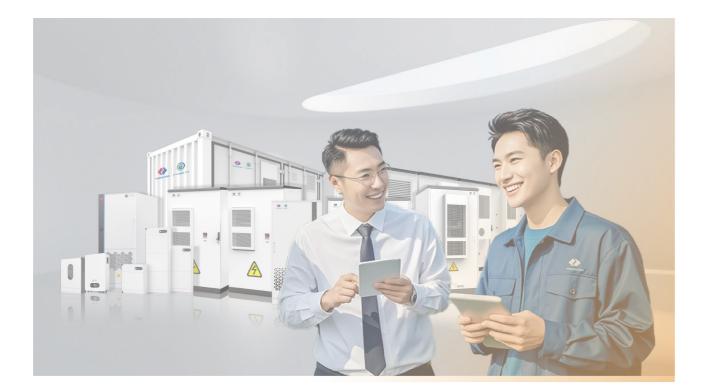
Component specification:	Unlimited	Max. snow load:	1.4KN/m² (customizable)
Component arrangement:	Horizontal/vertical	Material:	Stainless steel + aluminum alloy
Component tilt angle:	Parallel to roof	Surface treatment:	Anodic oxidation
Foundation form:	Metal hook	Designed life:	25 years
Max. wind load:	40m/s (customizable)	Term of warranty:	15 years

—Parameters are shown in table above—





Service Support .



Q1:What's the difference between high and low-voltage product series?

A1:High-voltage series products apply to the scenarios with high requirements for power quality, while low-voltage series products apply to price-sensitive scenarios; the difference between the two lies in battery selection, electrical component selection, mechanism design and electrical design. Under the same power demand, the high-voltage product is designed with high voltage and low current, while the low-voltage product is designed with low voltage and high current. Both of them are consistent in safety and quality design, even if the design is different. Please rest assured.

Q&A (Q&A) - Technical Sector

Q2:How can I select the product?

A2:Dear customer, you can firstly tell us the specific electrical equipment and usage of your house, so we can design a scheme for you according to the actual conditions, to satisfy your demands with the min. cost. The general household electricity circuit is divided into six circuits: One circuit for the main switch, one circuit for the whole house lighting, one circuit for every 10 ordinary sockets, one circuit for high-power electrical sockets (such as refrigerators and air conditioners), one circuit for the kitchen and one circuit for the bathroom. The classification method of household appliances has not been unified in the world. However, the products can be roughly divided into 8 categories by product function and application. ①Refrigeration appliance. Including household refrigerators, cold drinks machines, etc. ②Air conditioner. Including room air conditioner, electric fan, ventilator, cold and hot air blower, air dehumidifier, cold air blower, humidifier, etc. 3 Cleaning appliance. Include laundry machines, clothes dryers, electric irons, vacuum cleaners, floor polisher, sweeping robots, etc. 4 Kitchen appliance. Include electric cookers, microwave ovens, electromagnetic cookers, electric ovens, electric cookers, dish washers, electric water heaters, food processors, etc. ⑤ Electric heater. Including electric blankets, electric quilts, water-heated mattress pads, electric heating clothing and space heaters. ©Cosmetic health appliance. Including electric shavers, hair dryers, curling irons, ultrasonic face washers and electric massagers. TAudio-visual appliance. Including mini-projector, TV sets, radios, tape recorders, video recorders, video cameras, music centers, etc. ® Other electrical appliances, such as fireworks alarm, electric bell, etc. The comprehensive daily electricity demand power is generally 5kW~10kW. Our products range from 5kWh~30kWh, which can be selected as required.

Q3:How can I install it?

A3:Our products need simple connection only, and the connected parts have error-proof and foolproof functions, are equipped with safe air switch and three-level electrical protection (air-opening, relay, BMS). Please refer to our product manual for the specific installation process.

Q4:How to do maintenance?

A4:Our products are maintenance-free and fitted with running status monitoring function, and no human intervention is required under normal circumstances. For any fault, you're suggested to call our after-sales telephone and we will make timely response online for 24h.

Q5:Is upgrade function available?

A5:Our products support hardware upgrade and software upgrade. The hardware upgrade is divided into capacity expansion (power increase) and core components upgrade, which need to be upgraded on site and we provide supporting services; software upgrade can be realized online, but you need to open the backstage (for your electricity safety, we must get your permission before accessing your backstage).

Q6:Is parallel connection function available?

A6:Yes, our products have the parallel function of the same model, and up to 4 machines can have parallel connection.