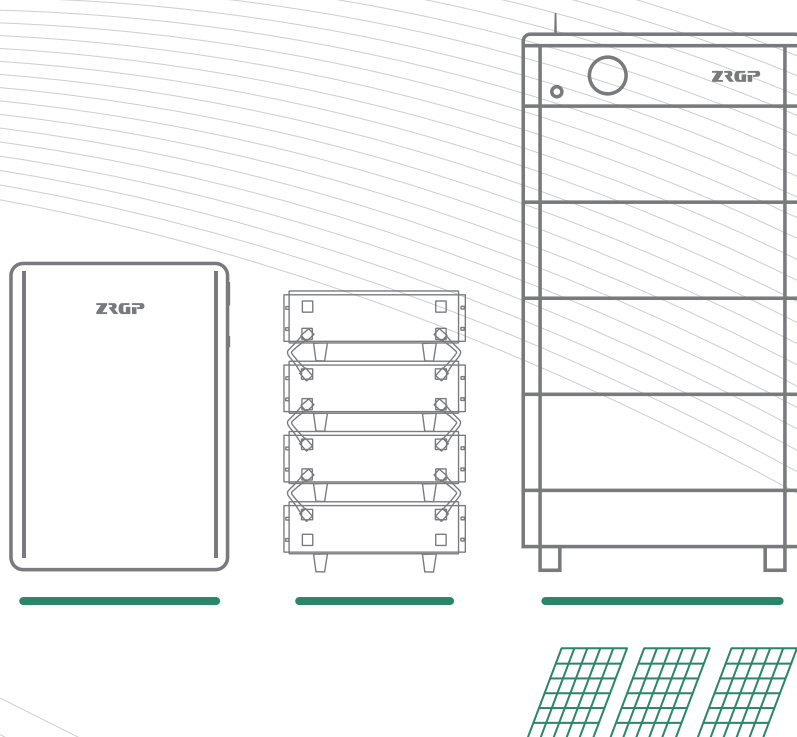




# RESIDENTIAL SERIES

Energy Storage Solution

OUR ENERGY WORKS FOR YOU



**Zhongrui Green Energy Technology (Shenzhen) Co., Ltd.**

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# Zhongrui Green Energy Technology (Shenzhen) Co., Ltd.

ZRGP is a national high-tech enterprise with a global vision. With independent research and development capabilities and focus on ESS solutions, ZRGP is becoming a world leading supplier of BMS, ESS, modules and monitoring systems. Our business scope integrates R&D, design, production and sales.

Headquartered in China, with multiple sales offices, product centers, factories, and wholly-owned subsidiaries around the world, ZRGP is committed to providing you with safe, lightweight and long-life green energy products.



ZRGP's industrial park boasts comprehensive facilities, including automated intelligent production lines, testing and aging sections, warehouse areas, office spaces, employee dormitories, cafeteria etc. A majority of the production and testing equipment possessed by the company is imported from Germany, whose advanced level and automation level are on the cutting edge of the industry.

**21000m<sup>2</sup>**

Factory Area

**3GWh**

Per Year

**90+**

Countries We Export To

## Company Advantages

- Years of research and development experience
- Sales and after-sales outlets all over the world
- Highly information-based automated factory
- Scientific production process control ability



To produce world-class energy storage products  
To serve the consumers in the global market

# 01 / LV Battery Storage System

PowerBase Mate LV	01
PowerBase FC	04
PowerBase X1	07
PowerBase X16	10

# 02 / HV Battery Storage System

PowerBase Mate HV	12
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# 03 / All In One

MAX-A	15
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# 04 / Inverter

PowerTrans LV	17
PowerTrans HV	19

# 05 / Deep Cycle Lithium Batteries 21

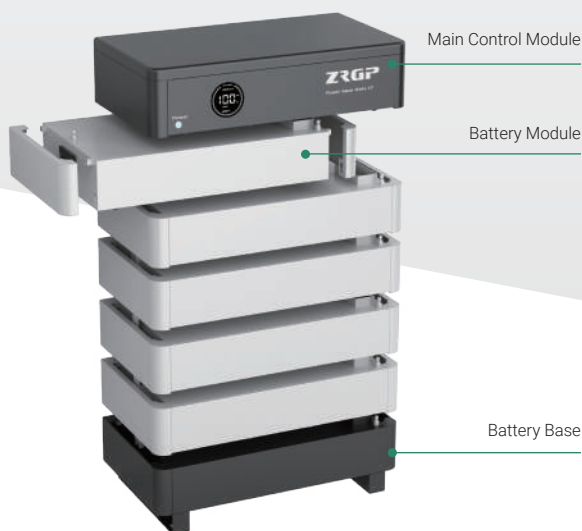
# 06 / Cloud & Cases

Z-Cloud Platform	23
Residential Cases	24

# PowerBase *Mate LV*

Stack-mounted  
Energy Storage System

5.12kWh-----614.4kWh



## Key Features



### Safety

Tier-1 Grade A LFP Battery  
2-layer Safety Protection IP55



### Reliability

Battery & BMS R&D Started from 2014  
80,000 Battery Modules in 90+ Countries



### High Usable Capacity

100% Usable Capacity



### Flexibility

Modular Design  
Expand Anytime



### Intelligent Management


























Monitoring and Analysis by APP  
Remote Diagnosis and OTA



### Cable-free Installation

Save up to 50% installation time

## Main Parameters

Battery Module QTY	2	3	4	5	6	7	8
Schematic Diagram							
Usable Energy (kWh) <sup>[1]</sup>	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Max Countinuous Power (kW) <sup>[2]</sup>	9.0	13.5	15.0				
Max Peak Current (A) <sup>[3]</sup>	200,10s	300,10s	400,10s	500,10s			
L*W(mm)	735*400						
H(mm)	646	781.5	917	1052.5	1188	1323.5	1459
Net Weight (kg)	141	193	245	297	349	401	453
Master Control Module				ZR-MC100-200M1			
Battery Module				ZR-FS48100-160SJ1			
Nominal Voltage (V)				51.2			
Operating Voltage Range (V)				43.2-58.4			
Cycle Life				8000 times			
Communication				CAN/RS485/RS232/WIFI			
Protection Level				IP55			
Warranty <sup>[4]</sup>				10 years product warranty			
Operating Temperature <sup>[5]</sup>				-20℃ to +55℃ (Charge 0℃ to +55℃)			
Certification				CEI 0-21/CE/UKCA/UL 1973/UL9540/UN 38.3/MSDS			
Scalability				Max.15 systems in parallel			
Application				ON Grid (Self consumption/ON Grid+Backup/Backup) and Off Grid			
Compatible Inverter Brands:				<div><div>  </div><div>     </div><div>        </div></div>			

[1] Test conditions: 100% DOD, 0.2C charge & discharge @+25°C. System Usable Energy may be variant with different inverter brands.

[2] Main circuit breaker maximum current capability.

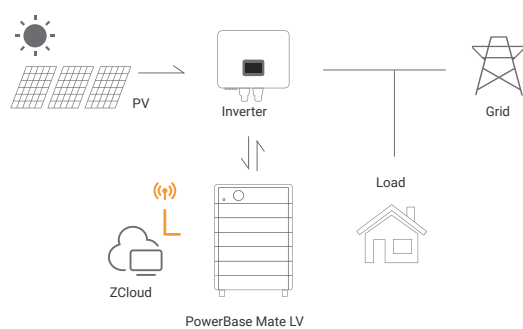
[3] In off-grid applications, the main circuit breaker should be bypassed, use a separate circuit breaker with a large current capacity.

[4] Conditions: Refer to Power Base Mate warranty.

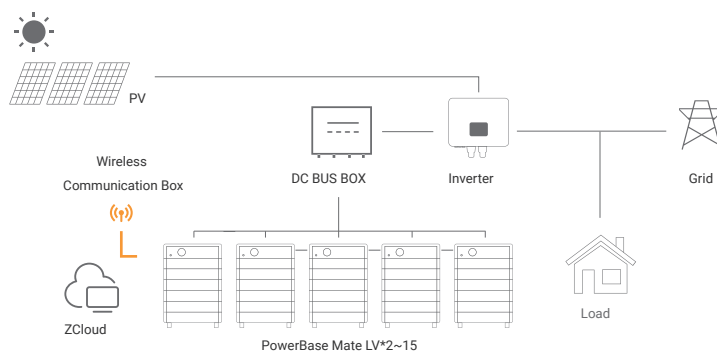
[5] -20°C ~ 15°C/ 50 °C~ 55°C will be derating.

## ■ System Layout

Single battery module



Multi-cluster



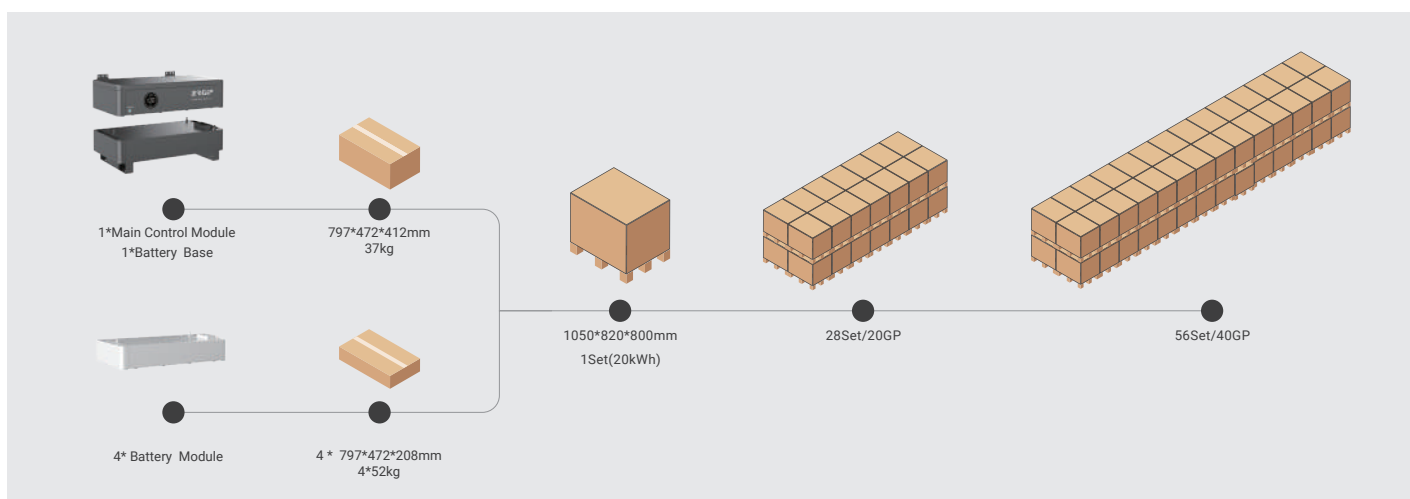
● Peak Shaving

● Energy Surplus

● Self-Consumption

● Energy Outage

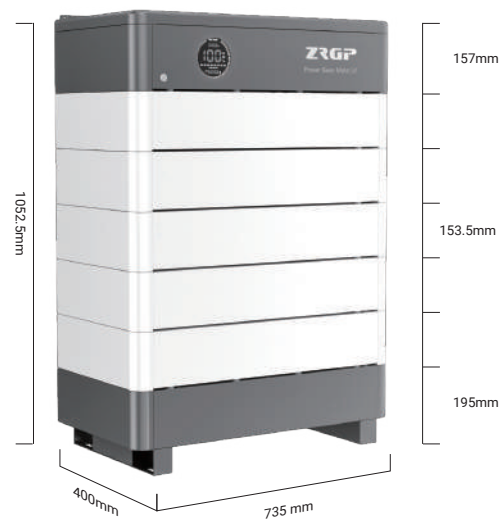
## ■ Packaging And Shipping Details



## ■ Cases



## ■ Size



Rack-mounted  
Energy Storage System

# PowerBase FC

5.12 kWh-----158.72 kWh



## Key Features



### Safety

Tier-1 LifePo4 Battery with Intelligent BMS for Safety and Performance



### Reliability

Battery & BMS R&D Since 2014, 80,000 Battery Modules in 90+ Countries



### High Usable Capacity

100% Usable Capacity



### Easily Scalable

Supports Parallel Connection of up to 31 Units for Maximum Capacity of 158.72 kWh\*



### Intelligent Management

App-based Monitoring and Analysis, Remote Diagnosis, and OTA Updates



### High adaptability

Flexible configuration and strong product adaptability

## ■ Main Parameters

	ZR-FC48100-1630J2
Cell Model (Ah)	100Ah/3.2V
Combination Mode	16S1P
Nominal Capacity (Ah)	100
Rated Energy(kWh)	5.12
Initial Internal Resistance (mΩ)	< 50
Rated Voltage (V)	51.2
Charge Cut-off Voltage (V)	59.2
Discharge Cut-off Voltage (V)	43.2
Standard Charge Current (A)	20
Max.Charge Current (A)	95
Standard Discharge Current (A)	50
Max.Discharge Current (A)	95
Operating Temperature (°C)	Charge 0°C ~ +55°C Discharge -20°C ~ +55°C
Life Cycle	8000 times
Communication	RS485/CAN/WIFI
Weight (kg)	45±1
L×W×H (mm)	420×440×132
Certification	CEI 0-21/CE/UKCA/IEC 62619/UN 38.3/MSDS








Compatible Inverter Brands:

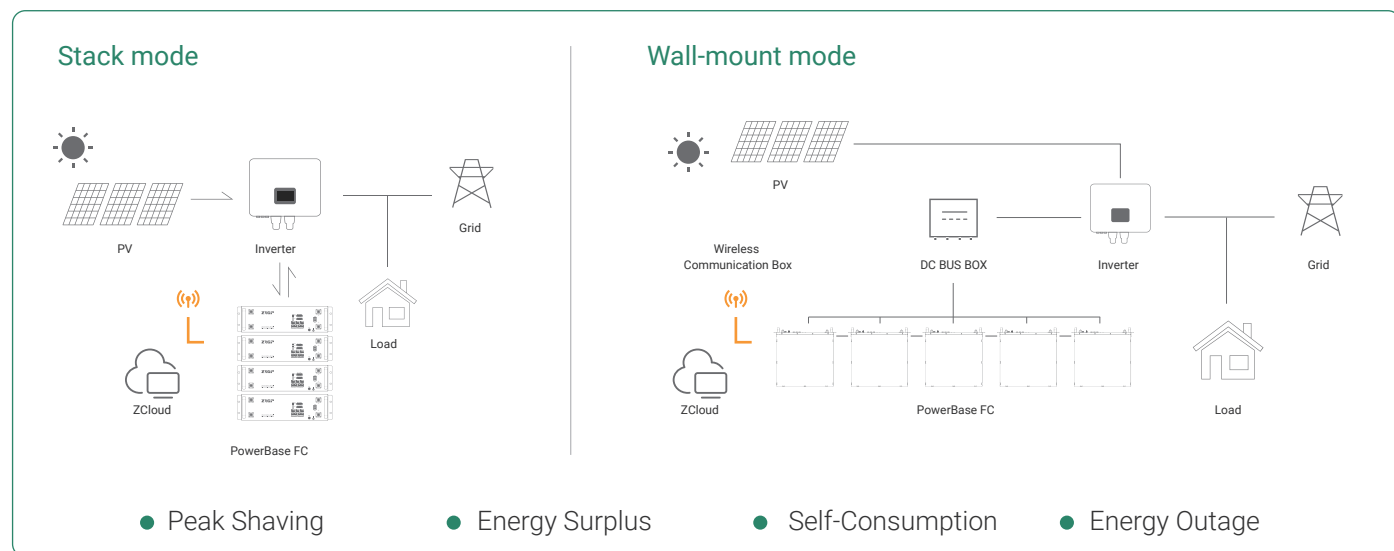


## ■ Effect Display





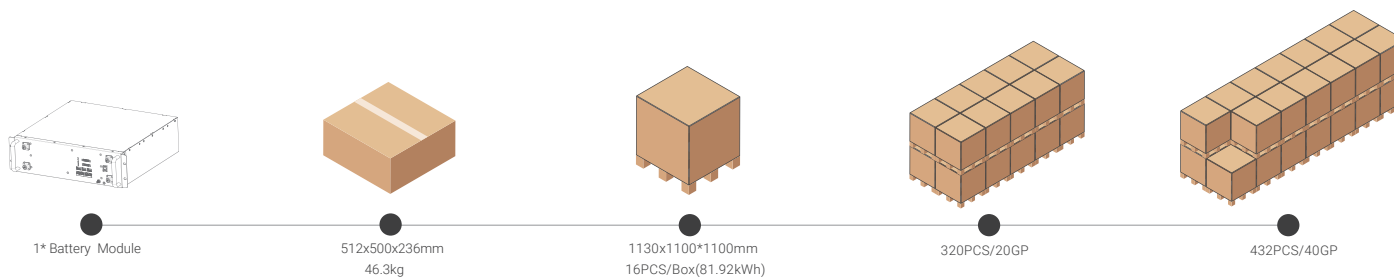
## ■ System Layout



## ■ Size



## ■ Packaging And Shipping Details



Wall-mounted  
Energy Storage System

# PowerBase X1

5.12 kWh-----158.72 kWh



## Key Features



### Safety

Tier-1 LifePo4 battery and Intelligent BMS to ensure high safety and excellent performance



### Reliability

Battery & BMS R&D Since 2014,  
80,000 Battery Modules in 90+ Countries



### High Usable Capacity

100% Usable Capacity



### Convenient operation

One-button switch, Touch LCD Screen,  
Easy capacity Expansion



### Intelligent Management

App-based Monitoring and Analysis,  
Remote Diagnosis, and OTA Updates



### Compact Design

Beautiful appearance,  
wall-mounted decoration

## ■ Main Parameters

	PowerBase X1 (1.0)	PowerBase X1 (2.0)
Battery Type	LiFeP04	
Energy (kWh)	5.12	
Rated Voltage (V)	51.2	
Battery Cell	3.2V 100Ah Prismatic Battery Cell	
Configuration	16S1P	
Discharge Cut-off Protect Voltage (V)	43.2	
Charge Cut-off Protect Voltage (V)	59.2	
Max.Charge Current (A)	100	95
Max.Discharge Current (A)	100	95
Communication	CAN/RS485/RS232	CAN/RS485/WIFI (Optional)
Parallel	Max.40 units in Parallels to get 204.8kWh.	Max.31 units in Parallels to get 158.72kWh.
Cycle Life	8000 times	
L*W*H(mm)	135x480x600	
Net Weight (kg)	50+1	
Cooling	Natural cooling	
Environment	Indoor	
Mounting Options	Wall mount	
Discharge Temperature(°C )	-20°C~+55°C	
Charge Temperature(°C )	0°C~+55°C	
Storage Conditions	-20°C to 30°C Up to 95% RH, non-condensing State of Charge (SoC): 50% INITIAL	
Maximum Altitude	3000m	
Certification	CEI 0-21/CE/UKCA/IEC 62619/UL 1973/UN 38.3/MSDS	





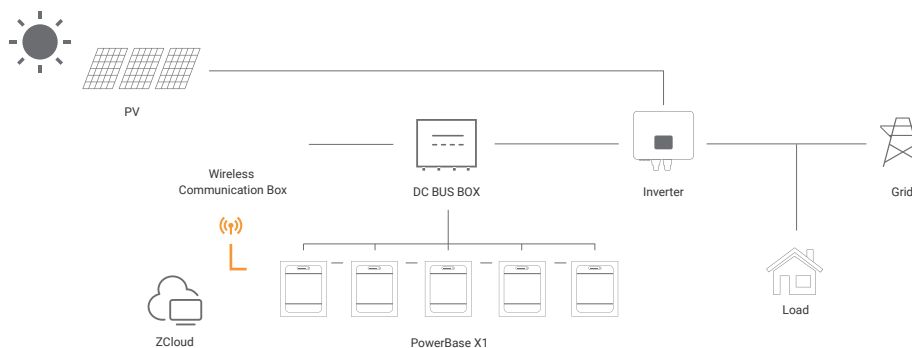



Compatible Inverter Brands:



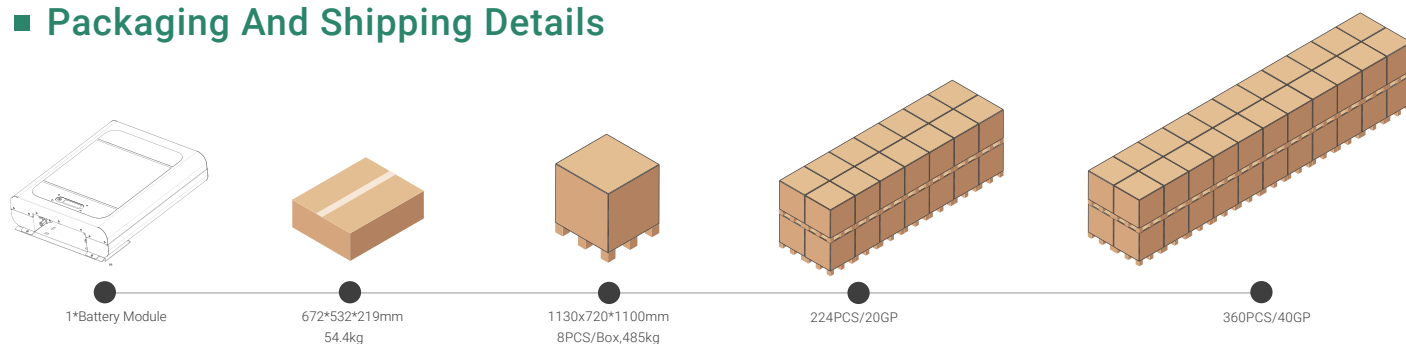
## ■ System Layout

### Wall-mount mode



- Peak Shaving
- Energy Surplus
- Self-Consumption
- Energy Outage

## ■ Packaging And Shipping Details



## ■ Effect Display



Wall-mount  
Energy Storage System

# PowerBase X16

16.0kWh



One Key Switch

Floor-standing with foot pads

Floor-standing with wheels (mobile)



## Key Features



### Safety

Tier-1 LifePo4 battery and Intelligent BMS to ensure high safety and excellent performance



### Reliability

Battery & BMS R&D Since 2014,  
80,000 Battery Modules in 90+ Countries



### High Usable Capacity

100% Usable Capacity



### Convenient operation

One-button switch,  
Easy capacity Expansion



### Intelligent Management

App-based Monitoring and Analysis,  
Remote Diagnosis, and OTA Updates



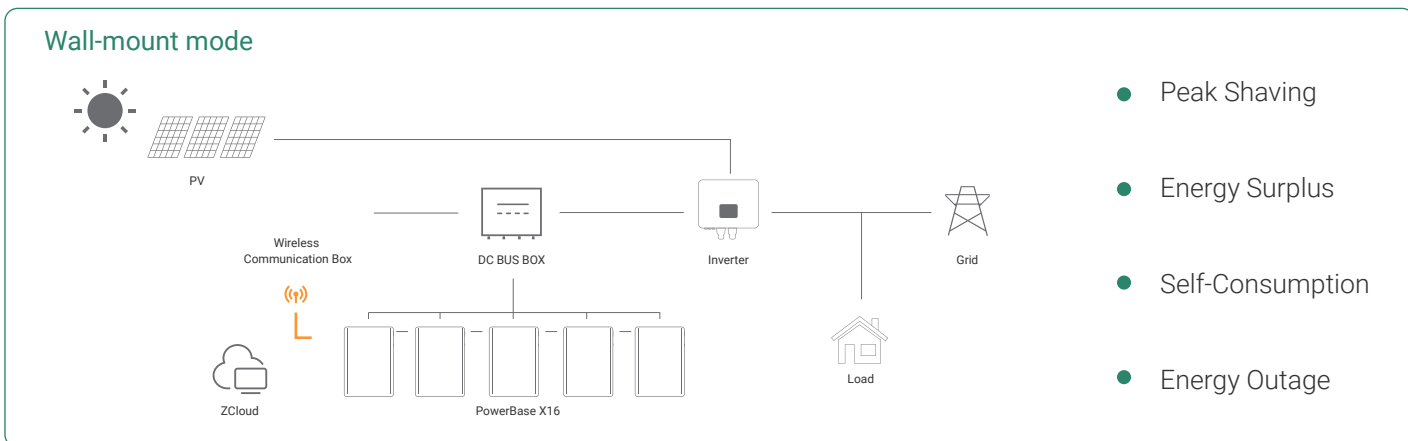
### Compact Design

Beautiful appearance,  
wall-mounted decoration

## ■ Main Parameters

Battery Type	LiFePO4
Rated Energy	16kWh
Cell Capacity	314Ah
Rated Voltage	51.2V
Cell model	3.2V 314Ah
Combination Mode	16S1P
Discharge Cut-off Voltage	43.2V
Recommend Charding	56.8V
Max. Charging/Discharging Current	200A
Primary Overcurrent Protection (A)	210A@10S
Secondary Overcurrent Protection (A)	250A@500mS
Communication	RS485/CAN/RS232
Compitable Inverter Brand	SMA, Growatt,Solis,DEYE, Sofar, Voltronic, Studer, etc.
Cycle life	≥8000 times@25°C
Dimension W*H*D	560*800*200 mm
Net Weight	133kg
Protection Degree	IP 65
Cooling	Natural cooling
Installation	Wall-mount In
Discharge Temperature	-20°C ~ 50°C
Charge Temperature	0°C ~ 50°C
Storage Conditions	-20°C ~ 55°C(0°C ~ 35°C Recommended)Up to 95 %RH, non-condensing, Initial SoC: 50%
Maximum Altitude	3000 m (6561 ft)

## ■ System Layout



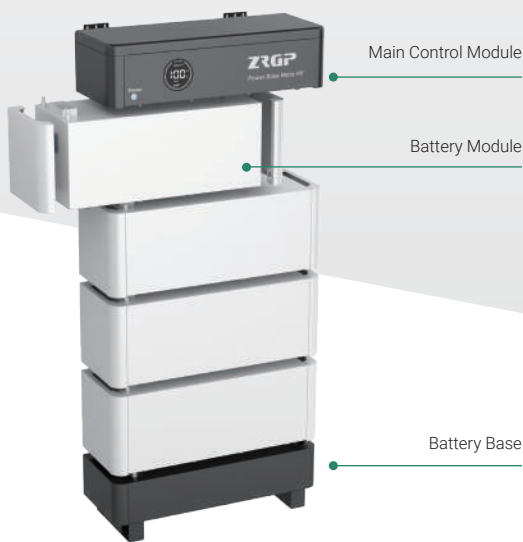
## ■ Effect Display



# PowerBase Mate HV

Stacked High Voltage  
Energy Storage System

9.6 kWh-----28.8 kWh



## Key Features



### Safety

Built-in protection mechanisms and high-quality components ensure safe and reliable battery operation.

### IP 55

#### Waterproof IP55

Multiple Scenarios for both indoor & outdoor installation



### High Compatibility

Compatible Over 14 Leading Inverter Brands



### Flexibility

Modular Design Expand Anytime



### Intelligent






Screen Display for Status and Faults ,  
with App Control and Monitoring Support



### Cable-free Installation

Save up to 50% installation time

## ■ Main Parameters

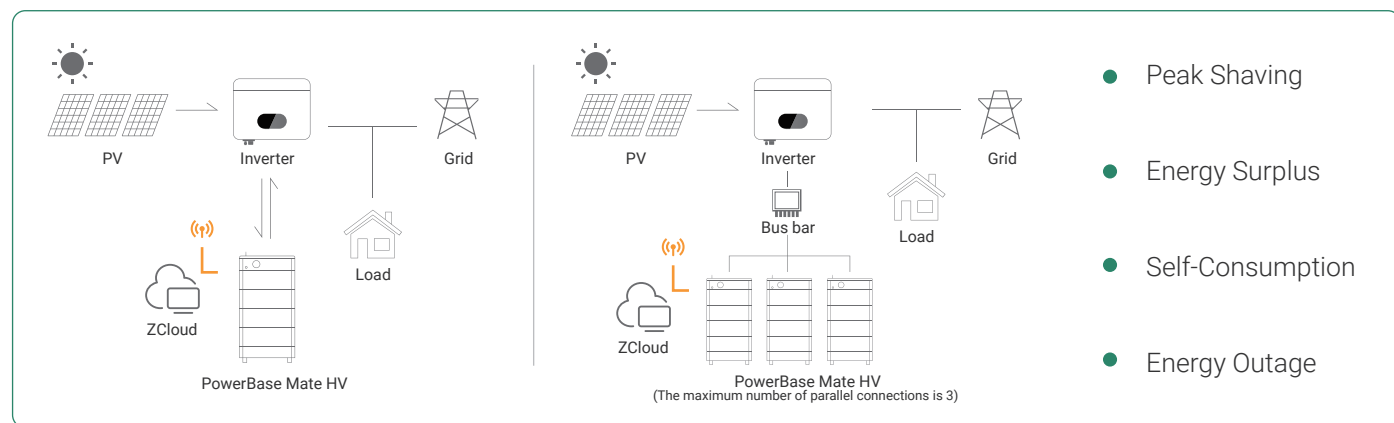
Battery Module QTY		2	3	4	5	6
Schematic Diagram						
Usable Energy (kWh)		9.6	14.4	19.2	24	28.8
Max Continuous Power (kW)		9.216	13.824	18.432	23.040	27.648
Battery Configuration		60S1P	90S1P	120S1P	150S1P	180S1P
Nominal Voltage (V)		192	288	384	480	576
Recommend Charging Voltage (V)		213	319.5	426	532.5	639
Max.Charging Voltage (V)		219	328.5	438	547.5	657
Recommend Discharge Cut-off Voltage (V)		175.8	263.7	351.6	439.5	527.4
Weight (Approx.) (kg)		140	195	250	305	360
Size	L×W(mm)	258*688				
	H (mm)	848	1085	1322	1559	1796
Max.Charging/Discharging Current (A)		48				
Peak for 10s (A)		75				
Master Controlle Module		ZR-MC500-100M3(HV)				
Battery Module		ZR-FS9650-301SR2				
Nominal Capacity (Ah)		50				
Chemistry		LiFePO4				
Protection Level		IP55				
Communication		RS485/CAN/WIFI				
Cycle Life		8000 times				
Designed Calender Life		≥10 years				
Safety Function		Over-charge, Over-discharge, Over-current, Low/High-temperature, Low-voltage, Short-circuit Protections				
Application		ON Grid (Self consumption/ON Grid+Backup) and Off Grid				
Certification		CEI 0-21/CE/IEC 62619/UN 38.3/MSDS				

Compatible Inverter Brands:

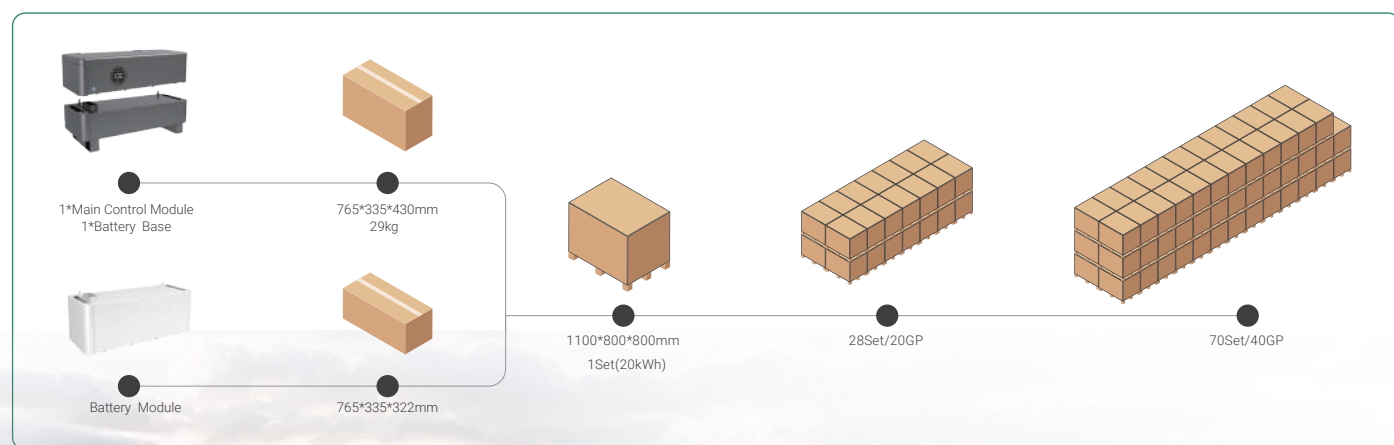




## ■ System Layout



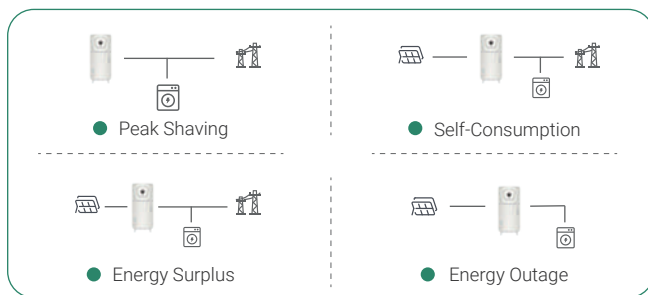
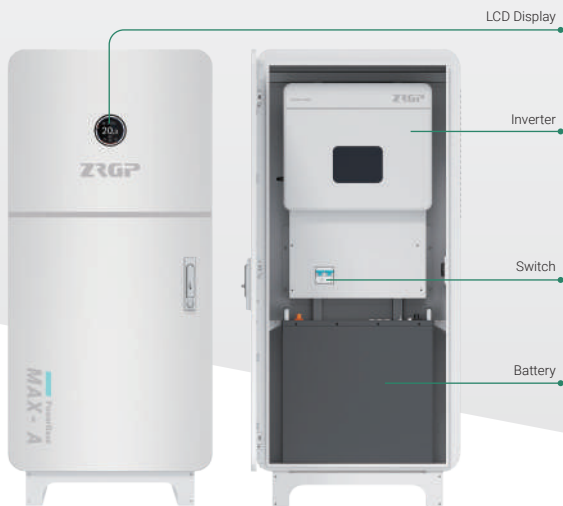
## ■ Packaging And Shipping Details



ALL-IN-ONE  
Energy Storage System

# MAX-A

10.24 kWh



## Key Features



### Elegant Design

Smart Home Orientation



### Visualization

LCD Display for Easy System Data Viewing



### Intelligent

Monitor Anytime, Anywhere with Cloud Platform and Mobile App



### All-in-One

Inverter and Battery Integrated Unit with Installation-Friendly Design



### Reliable

Leakage Protection, Built-in Copper Busbar, and Power Distribution Panel for More Stable and Safe Output

## IP54

### WaterProof

IP54, Multiple Scenarios for both indoor & outdoor installation

## ■ Main Parameters

<b>Efficiency</b>	MPPT Efficiency	99.90%
	DC Max. Efficiency	98.20%
	EU Efficiency	97.50%
	Battery Charging Efficiency	96.50%
	Battery Discharging Efficiency	96.50%
<b>PV Input</b>	Maximum PV Input Voltage(V)	500
	Nominal DC Input Voltage (Vdc)	360
	DC Input Voltage Range (Vdc)	125~500
	Start-up Voltage (Vdc)	100
	Max DC Input Current (A)	16/16
	MPPT Number/(Strings per MPPT)	2(1/1)
<b>Grid</b>	Rated Output Power(W)	6000
	Maximum AC Output Current (A)	28.7
	Acceptable Input Voltage Rang(Vac)	176~270
	Nominal Output Voltage (Vac)	230
	Frequency(Hz)	50 / 60
	Power Factor	1
	THDi	<3%
	Type Of Grid Connection	L+N+PE
<b>EPS</b>	Rated Output Power(W)	6000
	Nominal Output Voltage (Vac)	230
	Nominal Output Current (A)	26
	Frequency(Hz)	50 / 60
	Auto Switch Time(mS)	10
	THDu	<2%
	Surge Capability	110%@60S / 120%@30S / 150%@10S
<b>Battery</b>	Nominal Energy (kWh)	10.24
	Max. Charging (Vdc)	58.4
	Discharge Cut-off (Vdc)	43.2
	Cycle Life	≥8000times@80%DOD
	Warranty	10 years
<b>General Parameters</b>	Dimension (W*D*H mm)	600*320*1350
	Net Weight (kg)(Approximate)	180
	Level of Protection	IP54
	Cycle Life	8000 times
	Operating Temperature	-20°C ~ +50°C
	Relative Humidity Range (RH)	10% ~ 90%
	Operating Altitude (m)	2000
	Cooling	FAN+Free convection
	Communication	RS485/Wi-Fi /CAN
	Certification-Battery	CE/ UKCA/ IEC 62619/ UN 38.3/ MSDS
	Certification-Inverter	CE/ TUV/ SAA/ IEC62166; 2014 / IEC61683:1999

Low-voltage  
Single Phase Hybrid Inverter

# PowerTrans LV

3/3.68/4/4.6/5/6/8 kW



## Key Features



### Friendly and Flexible

Support multi-machine parallel connection.  
Compatible with a variety of battery connections such as lead-acid and lithium-ion batteries.



### Economical and Efficient

Maximum efficiency  $\geq 98\%$ . Small size, saving installation space.



### Quick Switch

Swift switching in under 10ms, akin to UPS-level performance.



### Convenient operation

One-button switch, Touch LCD Screen



### Intelligent Management

App-based Monitoring and Analysis, Remote Diagnosis, and OTA Updates

## IP65

### Waterproof

Boasts an IP65 protection rating, ensuring water and dust resistance for reliable performance in various environments.

## ■ Main Parameters

Model		PTL 3K-EU	PTL 3.68K-EU	PTL 4K-EU	PTL 4.6K-EU	PTL 5K-EU	PTL 6K-EU	PTL 8K-EU
PV Input Data	Max. Input power (kW)	4.5	5.4	6	6.9	7.5	9	12
	Start-up voltage (V)	100						
	Max. PV input voltage(V)	550						
	MPPT range/nominal (V)	80~500/360						
	Max.input current of single MPPT(A)	16/16	16/16	16/16	16/16	16/16	16/16	16/32
	MPPT tracker quantity	2	2	2	2	2	2	2
	MPPT quantity/ The number of input strings supported by each mppt	1/1	1/1	1/1	1/1	1/1	1/1	1/2
AC Output Data	Rated power (kW)	3	3.68	4	4.6	5	6	8
	Rated AC current output to grid (A)	13	16	17.4	20	21.7	26	35
	Nominal voltage/range(V)	230/176~270						
	Frequency (Hz)	50/60						
	Power factor	1(0.8 leading-0.8 lagging)						
	THDi	<3%						
	AC grid type	L+N+PE						
Battery Data	Battery voltage range(V)	60/60	72/72	80/80	40~58	100/100	120/120	160/160
	Max. charging voltage(V)	58						
	Max. charge/discharge current(A)	92/92						
	Battery type	Lithium /Lead-acid						
	Communication interface	CAN						
EPS Output Data	Rated power (kW)	3.68	3.6	4	4.6	5	6	8
	Rated voltage(V)	230						
	Rated AC current output to grid (A)	13	16	17.4	20	21.7	26	35
	Rated frequency(Hz)	50/60						
	Automatic switchover time(ms)	<10						
	THDu	<2%						
	Overload capacity	100%, 60s/120%, 30s/150%, 10s						
General Data	Battery Charge/Discharge Efficiency	96%						
	Max. Efficiency	98%						
	Europe Efficiency	97%						
	Mppt Efficiency	99.9%						
	Ingress Protection	IP65						
	Noise Emission (dB)	<35						
	Operation Temperature (*c)	-25~60						
	Cooling	Natural						
	Relative Humidity	0~95% (non-condensing)						
	Operating Altitude	0-2000m (no derating below 2000m)						
	Dimensions(W*D*H)	454.5*200*467mm 8*7.8*18.3in				467*200*484mm 18.3*7.8*19in		
	Weight	18kg / 40lb				20kg / 44lb		
	Topology	Non-isolated						
	Self-consumption At Night (W)	<20						
Display& Communication	Display	Optional (colorful touch screen /no screen)						
	Interface	RS485/Wifi/4G/CAN/DRM						
Certifications	Certifications	EMC, EN50549-1, IEC 62109-1/IEC 62109-2, EN62109-1/EN62109-2, CE, NRS, G99						

High Voltage  
Three Phase Hybrid Inverter

# PowerTrans HV

5/6/8/10A/10 kW



## Key Features



### PV Compatibility

Compatible with high power PV modules with 18A



### Unbalanced Load

Support 100% unbalanced loads



### UPS Switching

< 10ms UPS-level switching



### Parallel Connection

Support parallel connections up to 10 pcs



### Remote Upgrade

Remote firmware upgrade & work mode setting



### VPP Integration

Virtual Power Plant/ Firm Frequency Response integrated

## ■ Main Parameters

Model		PTH 5K-EU	PTH 6K-EU	PTH 8K-EU	PTH 10KA-EU	PTH 10K-EU
PV Input Data	Recommended Max. PV Power (Wp)	7500	9000	12000	15000	15000
	Max. PV Input Voltage (V)			1000		
	MPPT Voltage Range (V)			160 ~ 950		
	Rated PV Input voltage (V)			600		
	Start-up Voltage (V)			180		
	No. of MPP Trackers			2		
	No. of Input Strings per Tracker			1		
	Max. Input Current per MPPT (A)			36(18 / 18)		
	Max. Short-circuit Current per MPPT (A)			46(23 / 23)		
	DC Switch			Integrated		
AC Output Data	Maximum Apparent Power (VA)	5500	6600	8800	10000	11000
	Rated AC Power (W)	5000	6000	8000	10000	10000
	Maximum AC Current (A)	7.6	9.1	12.2	14.4	15.2
	Rated AC Current (A)	7.2	8.7	11.5	14.4	14.4
	Rated AC Voltage / Range (V)			3 / N / PE, 220 / 380, 230 / 400; ± 20%		
	Grid Frequency / Range (Hz)			50 / 60; ± 5		
	Adjustable Power Factor (cosφ)			0.8 leading ~ 0.8 lagging		
	Output THDi (@Rated Output)			< 3%		
AC Input Data	Max .apparent AC Power (VA)	10000	12000	16000	20000	20000
	Max. AC Current (A)	15.2	18.2	24.4	28.8	30.4
	Rated AC Voltage / Range (V)			3 / N / PE, 220 / 380, 230 / 400; ± 20%		
	Grid Frequency / Range (Hz)			50 / 60; ± 5		
Battery Data	Battery Type			Lithium		
	Battery Voltage Range (V)			160 ~ 700		
	Max. Charging / Discharging Current (A)			30 / 30		
	Communication Interface			CAN		
EPS Output Data (With Battery)	EPS Rated Power (W)	5000	6000	8000	10000	10000
	EPS Rated Voltage (V)			3 / N / PE, 220 / 380, 230 / 400		
	EPS Rated Frequency (Hz)			50 / 60		
	EPS Rated Current (A)	7.6	9.1	12.2	14.4	15.2
	Output THDi (@Rated Output)			< 3%		
	Automatic Switch Time (ms)			< 10		
Efficiency	Peak Apparent Power, Duration (VA, s)	7500.60	9000.60	12000.60	15000.60	15000.60
	Max. Efficiency	98.00%	98.00%	98.00%	98.00%	98.00%
	Euro Efficiency	97.70%	97.70%	97.70%	97.70%	97.70%
	Max. Battery Charge / Discharge Efficiency	97.60%	97.60%	97.60%	97.60%	97.60%
Protection	DC Insulation Monitoring			Integrated		
	Input Reverse Polarity Protection			Integrated		
	Anti-island Protection			Integrated		
	Residual Current Monitoring			Integrated		
	Over-heat Protection			Integrated		
	AC Overcurrent Protection			Integrated		
	AC Short-circuit Protection			Integrated		
	AC Overvoltage Protection			Integrated		
	DC Surge Protection			Integrated (Type II)		
	AC Surge Protection			Integrated (Type II)		
General Data	Size (Width * Height * Depth) (mm))			520 * 412 * 188		
	Weight (kg)			27		
	User Interface			LED + OLED		
	Communication			RS485 and USB or Wifi or 4G (Optional)		
	Operating Temperature Range (°C)			-25 ~ +60		
	Relative Humidity			0 ~ 100%		
	Operating Altitude (m)			≤ 2000		
	Standby Self Consumption (W)			< 15		
	Topology			Transformerless		
	Cooling			Natural		
	Enclosure			IP65		
	Noise (dB)			< 35		
	Warranty (years)			5		
Certifications & Standards	Grid Regulation	VDE 4105, EN 50549-1, VDE 0126, CEI 0-21, EN 50549-GR, EN 50549-PL, TOR Erzeuger, EN50549-CZ, AS4777, UNE217002				
	Safety Regulation	IEC 62109-1, IEC 62109-2				
	EMC	IEC 61000-6-1, IEC 61000-6-3				



# DEEP CYCLE LITHIUM BATTERIES

# ZRGP

The LiFePO4 battery shares the same structural specifications as lead-acid batteries but offers advantages such as high safety, reliability, long cycle life, and excellent temperature performance. Its unique benefits make it suitable for various applications, including RVs, sightseeing carts, marine use, scooters, tricycles, emergency lighting, and security monitoring. It serves as an ideal drop-in replacement for traditional lead-acid batteries.



## Flexibility

From 7Ah to 300Ah, with 12V / 24V variants  
Versatile in multiple application scenarios  
Standard group size, down to upgrade of old batteries

## Techno-convenience

Bluetooth pre-installed with the built-in smart BMS  
Free cell phone app accessible for monitoring and micro-adjusting

## Cutting-edge Quality

Capable of connecting 4 batteries together in either series or parallel  
Tier-1 Top brands' A-grade LFP cells



ZR-LFP12007



ZR-LFP12010



ZR-LFP12020



ZR-LFP12050H



ZR-LFP12100H



ZR-LFP12150H



ZR-LFP12200H



ZR-LFP24100



■ Main Parameters

	ZR-LFP 12007	ZR-LFP 12010	ZR-LFP 12020	ZR-LFP 12050H	ZR-LFP 12100H	ZR-LFP 12150H	ZR-LFP 12200H	ZR-LFP 12300H	ZR-LFP 24100
Nominal Capacity (Ah)	6.6	9.9	19.8	50	100	150	200	300	100
Rated Energy (Wh)	85	127	253	640	1280	1920	2560	3840	2560
Rated Voltage (V)	12.8								25.6
Charge Ending Voltage (V)	14.6(14.2 Preferred)								29.2 (28.4 Preferred)
Discharge Ending Voltage (V)	10	10	10	10	10	10	10	10	20
Standard Charge Current (A)0.2C	1.32	1.98	3.96	10	20	30	40	60	20
Max. Charge Current (A)	≤ 6.6	≤9.9	≤ 19.8	≤ 50	≤100	≤150	≤150	≤150	≤100
Standard Discharge Current (A)	6.6	4.8	9.6	25	50	75	100	100	50
Max. Discharge Current (A)	9.6	14.4	≤20	≤50	≤ 100	≤150	≤150	≤150	≤100
Operating Temperature	Charge: 0°C ~ +55°C ;Discharge: -20°C ~ +55°C								
Operating Voltage (V)	10.0-14.6								20.0-29.2
Shell Type	ABS								
Weight (kg)	0.9	1.3	3.5	8	13	22	21	30	21
L*W*H (mm)	150*65*94	150*65*94	180*76*168	223*134*177	326*170*216	483*170*240	483*170*240	522*240*218	483*170*240

	ZR-LFP 12100S (Bluetooth version)	ZR-LFP 12150S (Bluetooth version)	ZR-LFP 12200S (Bluetooth version)
Cell Model	LFP-Prismatic 3.2V 100Ah	LFP-Prismatic 3.2V 50Ah	LFP-Prismatic 3.2V 100Ah
Combination Mode	4S1P	4S3P	4S2P
Nominal Capacity (Ah)	100	150	200
Rated Energy (Wh)	1280	1920	2560
Rated Voltage (V)	12.8	12.8	12.8
Charge Ending Voltage (V)	14.6 (14.2 Preferred)	14.6 (14.2 Preferred)	14.6 (14.2 Preferred)
Discharge Ending Voltage (V)	10	10	10
Standard Charge Current (A) 0.2C	20	30	40
Max. Charge Current (A)	≤ 100	≤ 150	≤ 150
Standard Discharge Current (A)	50	75	100
Max. Discharge Current (A)	≤ 100	≤ 150	≤ 150
Operating Temperature	Charge 0°C ~ +55°C;Discharge -20°C ~ +55°C		
Operating Voltage (V)	10.0-14.6		
Shell Type	ABS		
Weight (kg)	13	22	21
L×W×H (mm)	326x170x216	483x170x240	483×170×240

# Monitoring System Z-CLOUD



Z-Cloud is an all-encompassing device management and monitoring solution primarily designed for residential environments, while also catering to national agents, secondary agents, installers, and end users. It provides a robust system for homeowners to monitor and manage their energy usage in real time, enhancing efficiency and facilitating smarter home energy management. Additionally, Z-Cloud can oversee large-scale power stations and energy storage systems in commercial and industrial settings.



## Instant Insights through Remote Data Monitoring and Analysis

Remote data monitoring, automatic curve generation, and comprehensive big data analysis provide a clear overview of product operation status at a glance.



## Enhance Customer Satisfaction with Remote Firmware Upgrades

Remote firmware updates and automated operation and maintenance reports significantly boost customer satisfaction by ensuring seamless and efficient service.



## Enhanced Security with Distributed Architecture and Data Encryption

Our distributed architecture and robust data encryption ensure that cloud data remains secure and reliable.



## Optimize Channel Development with a Four-Tier Distribution System.

Our four-tier distribution system, extending from brand owners to end-users, strengthens product channel construction and optimizes market reach.



## Seamless Integration with Intelligent Mall and Trial Applications

Our intelligent mall and new product trial applications facilitate direct contact with source manufacturers, streamlining product promotion and improving accuracy.



# INSTALLATION RESIDENTIAL CASES

Over the years, ZRGP has delivered outstanding energy storage projects across residential, commercial, and industrial sectors.

With solutions spanning 90+ countries and over 3,000 successful cases, every project stands as a testament to our expertise and innovation.





Our Energy Works For You




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