



ENERGY EXPERT TO GLOBAL ESS USERS





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Company Profile

Guangzhou Zhiguang Electric Co., Ltd. was listed on Shenzhen Stock Exchange in 2007.

The company possess leading technologies, products and solutions for digital energy and integrated energy service.

Zhiguang supply core products such as battery PACK, BMS, PCS and EMS, as well as complete energy storage power station, residential, industrial and commercial energy storage products and service. Provide customers with high-efficiency, high-reliability and high-safety energy storage systems for application scenarios such as power generation side , power grid side and power consumer side.



1999
Established In

2007
Listed In

700+
Patents And Software
Copyrights

The fossil fired power plant - energy storage frequency regulation system in Foshan Shunde built by the company was listed in the "first batch of scientific and technological innovation (energy storage) pilot demonstration projects of the National Energy Administration".

The company operates national enterprise technology center, national postdoctoral research center, Guangdong enterprise technology center, Guangdong engineering technology research center and other scientific research and innovation platforms, in smart grid technology, energy conversion technology, automation and informatization to carry out new product technical research and development.

The company has obtained 791 patents and software copyrights, including 72 invention patents, 336 utility model patents, 39 design patents, 344 software copyrights, and the company has participated in formulation of 64 technology standards at national and industry level.

Business Scope



Residential BESS



Industrial & Comm. BESS



Utility Scale BESS



Solar+BESS+DG Micro Grid



All-in-one ESS(US)

ZGE-B-L-A



Model	ZGE-B-L-A10.24(a/b)	ZGE-B-L-A15.36/20.48(a/b)	ZGE-B-L-A25.6/30.72(a/b)
Battery Module			
Capacity	51.2V 200Ah	51.2V 300Ah/400Ah	51.2V 500Ah/600Ah
Energy	10.24kWh	15.36kWh/20.48kWh	25.6kWh/30.72kWh
Operating Voltage Range	43.2V~56.16V		
Cell technology	Lithium-iron phosphate (LiFePO4)		
Life cycle	6000 @ 80% DOD , 25°C / 0.5C		
Charge/Discharge current	190A		
Dimension (W*D*H)	653*350*1370mm	653*350*1890mm	653*350*2410mm
Weight	200Kg	260Kg/320Kg	380Kg/440Kg
AC Output			
Rate AC output power	8kW/10kW		
AC Output Voltage	120/240Vac(split phase), 208Vac(2/3 phase),230Vac(single phase)		
AC Output Frequency	50/60Hz		
Grid Type	Split phase, 2/3 phase, Single Phase		
Max Output Current	38.3A		
General Data			
Display	LCD		
Communication	Modbus, RS485, WIFI, 4G		
Operating temperature	-20°C~55°C		
Cooling	Natural convection and fan cooling		
Certification	UL1741, UL9540, UN38.3, MSDS		

All-in-one ESS(EU)

ZGE-B-L-B



Model	ZGE-B-L-B10.24	ZGE-B-L-B15.36/20.48	ZGE-B-L-B25.6/30.72
Battery Module			
Capacity	51.2V 200Ah	51.2V 300Ah/400Ah	51.2V 500Ah/600Ah
Energy	10.24kWh	15.36kWh/20.48kWh	25.6kWh/30.72kWh
Operating Voltage Range	43.2V~56.16V		
Cell technology	Lithium-iron phosphate (LiFePO4)		
Life cycle	6000 @ 80% DOD , 25°C / 0.5C		
Charge/Discharge current	120A		
Dimension (W*D*H)	653*350*1370mm	653*350*1890mm	653*350*2410mm
Weight	200Kg	260Kg/320Kg	380Kg/440Kg
AC Output			
Nominal AC output power	6kW		
Rated AC voltage	220V		
AC voltage range	150-300V		
Rated grid frequency	50/60		
Grid connection	single phase		
General Data			
Display	LCD		
Communication	Modbus, RS485, WIFI, 4G		
Operating temperature	-20°C~55°C		
Cooling	Natural convection and fan cooling		
Certification	CB, IEC/EN62109, EN50549-1, UN38.3, MSDS		

HV All-in-one ESS

ZGE-B-L-C



Model	ZGE-B-L-C10.24	ZGE-B-L-C15.36/20.48	ZGE-B-L-C25.6
Battery Module			
Capacity	102.4V 50Ah*2	102.4V 50Ah*3/4	102.4V 50Ah*5
Energy	10.24kWh	15.36kWh/20.48kWh	25.6kWh
Operating Voltage Range	125V~600V		
Cell technology	Lithium-iron phosphate (LiFePO4)		
Life cycle	6000 @ 80% DOD , 25°C / 0.5C		
Charge/Discharge current	50A		
Dimension (W*D*H)	653*301.5*1331mm	653*301.5*1851mm	653*301.5*2371mm
Weight	222.5Kg	282.5Kg/342.5Kg	402.5Kg/462.5Kg
AC Output			
Rated output power	10kVA		
Max. output current	19.1A		
Grid voltage/range	400/360~440V		
Output Frequency	50/60		
Automatic switching time	<20ms		
AC output topology	3W+N+PE		
General Data			
Display	LCD		
Communication	Modbus, RS485, WIFI, 4G		
Operating temperature	-20°C~55°C		
Cooling	Natural convection and fan cooling		
Certification	CB, IEC/EN62109, EN50549-1, UN38.3, MSDS		

Wall-mounted Energy Storage

ZGE-B-L-D



Model	ZGE-B-L-D5.12(a/b)	ZGE-B-L-D10.24
Performance		
Capacity	51.2V 100Ah	51.2V 200Ah
Battery Energy	5.12kwh	10.24kwh
Nominal Charge/Discharge Current	50A	100A
Max Charge/Discharge Current	100A	200A
Working Voltage	43.2~56.16V	43.2~56.16V
General Specification		
Dimension(W×H×D)	520*470*141.5mm(EU)/540*500*141.5mm(US)	590*800*142mm
Weight	47.2Kg	96.5Kg
Installation	Wall mounted/Floor stand	
Charge Temperature	0°C ~ 55°C	
Discharge Temperature	-20°C ~ 60°C	
IP Rating	IP65	
Cell Technology	LiFePO4	
Cycle life	6000 @ 80% DOD, 25°C / 0.5C	
Scalability	Max 15 batteries in parallel	
Communication		
Communication	RS485、CAN	
Display	SOC status indicator, LED indicator	
Certification	CB, IEC62619; UL1973; UL9540A; UN38.3; MSDS; CE-EMC, EN61000-6-1/2/3/4; CE-GPSP, EN62619	

3U Rack Energy Storage ZGE-B-L-E



Model	ZGE-B-L-E5.12
Performance	
Capacity	51.2V 100Ah
Battery Energy	5.12kwh
Nominal Charge/Discharge Current	50A
Max Charge/Discharge Current	100A
Working Voltage	43.2~56.16V
General Specification	
Dimension(W×H×D)	550*130*440mm(3U)
Weight	47.2Kg
Installation	Rack mounted/Wall mounted/Cabinet mounted
Charge Temperature	0°C ~ 55°C
Discharge Temperature	-20°C ~ 60°C
IP Rating	IP20
Cell Technology	LiFePO4
Cycle life	6000 @ 80% DOD, 25°C / 0.5C
Scalability	Max 15 batteries in parallel
Communication	
Communication	RS485、CAN
Display	SOC status indicator, LED indicator
Certification	CB, IEC62619; UL1973; UL9540A; UN38.3; MSDS; CE-EMC, EN61000-6-1/2/3/4; CE-GPDS, EN62619

HV Stackable Energy Storage

ZGE-B-L-G

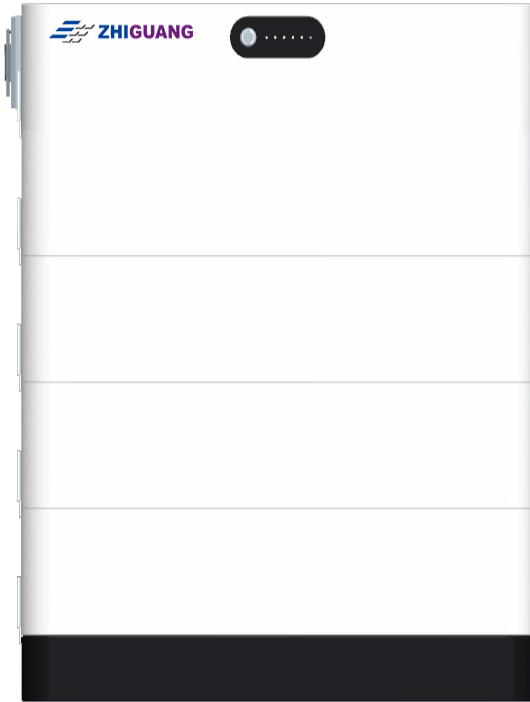


Model	ZGE-B-L-G2.56
Battery Module	
Capacity	51.2V 50Ah
Battery Energy	2.56kwh
Nominal Charge/Discharge Current	25A
Max Charge/Discharge Current	50A
Dimension(W×H×D)	600*160*210mm
Weight	26.5Kg
High-Voltage Box	
Dimension(W×H×D)	600*250*210mm
Weight	23Kg
General Specification	
Scalability	3-10 batteries in series
Installation	Stacked
Charge Temperature	0°C ~ 55°C
Discharge Temperature	-20°C ~ 60°C
IP Rating	IP65
Cell Technology	LiFePO4
Cycle life	6000 @ 80% DOD, 25°C / 0.5C
Communication	
Communication	RS485、CAN
Display	SOC status indicator, LED indicator
Certification	CB, IEC62619; CE-EMC, EN61000-6-1/2/3/4; EN62040; IEC62040; UN38.3; MSDS

LV Stackable Energy Storage

ZGE-B-Z-A

Features



- High Capacity
- High Flexibility
- High Efficiency
- Safe and Reliable
- Real Time Monitoring
- Durability
- Intelligent BMS
- Seamless Integration
- Condensed aerosol fire extinguishing technology

Model	ZGE-B-Z-A5.12	ZGE-B-Z-A10.24	ZGE-B-Z-A15.36	ZGE-B-Z-A20.48	ZGE-B-Z-A25.6	ZGE-B-Z-A30.72
Basic						
Battery Type	Lithium Iron Phosphate (LFP)					
Norminal Voltage	51.2V					
Norminal Capacity	5.12KWH	10.24KWH	15.36KWH	20.48KWH	25.6KWH	30.72KWH
Operating Voltage Range	47.2~58.6V					
Norminal Charging/DischargingCurrent	50A					
Max Charging/Discharging Current	100A					
No of Battery Layer	1	2	3	4	5	6
Cycle Life	6000@80%DOD,25°C/0.5C					
Structure						
Dimension(mm)	710*400*375	710*400*525	710*400*675	710*400*825	710*400*975	710*400*1125
Weight	70kg	118kg	166kg	214kg	262kg	310kg
Installation	Stacked					
Working Environment						
Temperature Range for Charging	0~60°C					
Temperature Range for Discharging	-20~60°C					
Altitude	2500m					
Humidity	5~95%					
IP Rating	IP65					
Communication						
Communication Port	RS485/CAN					
Display	SOC Indicator					
Certificates	IEC62619; EN61000-6-1/-2/-3/-4; UL1973; UL9540A; UN38.3;MSDS					

Single Phase Hybrid Inverter ZGE-P-Z



Features

HIGH YIELD

- Max Efficiency 97.5%;
- Max Charge/Discharge Current 120A.

HIGH RELIABILITY

- With BMS System To Ensure High Battery Life;
- Natural Cooling Design.

INTELLIGENT MAINTENANCE

- Compatible With Lead Acid Battery And Lithium Battery;
- Remote Monitoring And Upgrade.

Model	ZGE-P-Z-A3.6	ZGE-P-Z-A4	ZGE-P-Z-A4.6	ZGE-P-Z-A5
DC Input (PV)				
Max PV Input Power	5000W		6500W	
Max PV Voltage			550V	
Starting Voltage			100V	
Rated Voltage			360V	
MPPT Voltage Range			100~550V	
Number of MPPT			2	
Number of String Per MPPT			1	
Max Input Current Per MPPT			13.5A	
Max Short Current Per MPPT			15A	
DC Input (Battery)				
Battery Type	Lithium Iron/Lead Acid			
Battery Voltage Range	40-60V			
Max Charging/Discharging Current	80A			120A
Max Charging/Discharging Power	3600W	6000W	6000W	6000W
AC Output (Grid)				
Grid Phase	Single Phase			
Rated AC Power	3600W	4000W	4600W	5000W
Max Apparent Power	3600VA	4000VA	4600VA	5000VA
Rated Output Voltage	230V			
Output Frequency	50Hz/60Hz			
Max Output Current	16A	20A	22A	25A
Power Factor	>0.99@Rated Power(Adjustable0.8LD...0.8LG)			
THDi	<3%			
DC Component	<0.5%			
Current Unbalance	<2%(<4% for short time)			
Wiring Group	L+N+PE			
AC Output (Backup)				
Max Apparent Power	3600VA	4000VA	4600VA	5000VA
Max Output Current	16A	20A	22A	25A
Rated Output Voltage	230V			
Rated Output Frequency	50Hz			
Power Factor	>0.99@Rated Power(0.8Ld...0.8Lg)			
ThDu	<3%			
Transfer Time	<20ms			
Efficiency				
Max Efficiency	97.5%			
Europe Efficiency	97%			
MPPT Efficiency	≥99.5%			
General				
Dimension (W*H*D)	575*495*200mm			
Weight	26KG			
Isolation Mode	No Isolation			
IP rating	IP65			
Working Temperature	-25° C~+60° C			
Relative Humidity	0~100%			
Power Loss At Night	<10W			
Cooling Mode	Natural Cooling			
Altitude	3000m(>2000m Derating)			
DC Terminal	H4			
Communication				
Display Screen	LED+LCD			
Communication Port	RS485/CAN/WiFi(Optional)			
Function	VPP/CAN/DRM/METER BUS/NTC/DRY			
Protection				
Anti Islanding	Available			
AC Overcurrent	Available			
AC Short Current Protection	Available			
AC Overvoltage Protection	Available			
DC Reverse Protection	Available			
Insulation Detection	Available			
Earth Fault Protection	Available			
Residual Current Detection	Available			
DC Surge Protection	Available			
AC Surge Protection	Available			
DC Arc Protection	Optional			
Over Heat Protection	Available			
Certification				
Standard	EN/IEC62109-1;EN/IEC 62109-2;EN/IEC 62477-1;Tor Erzeuger Typ A:2019-12;OVE-directive R25:2020-03;VDE 4105:2018; VDE 0124-100:2020-06;EN 50549-1:2019;CEI 0-21:2022;AS/NZS 4777.2:2020;EN IEC 61000-6-1:2019;EN IEC 61000-6-3:2021.			

Three Phase Hybrid Inverter

ZGE-P-S-B



Features

HIGH YIELD

- Max efficiency 98.4%, Battery efficiency 98%;
- Max. Charge/Discharge Current 50A;
- Reasonable energy control to increase the proportion of spontaneous use.

HIGH RELIABILITY

- With BMS system to ensure high battery life;
- Natural cooling design.

INTELLIGENT MAINTENANCE

- Compatible with lead-acid batteries and lithium battery energy storage systems;
- Remote configuration and upgrade.

Model	ZGE-P-S-B5	ZGE-P-S-B6	ZGE-P-S-B8	ZGE-P-S-B10
Efficiency				
Max. efficiency (PV to AC)	98.2%	98.2%	98.4%	98.4%
Max. efficiency (BAT to AC)	97.2%	97.2%	97.9%	97.9%
Input (PV)				
MAX PV Power	9000W	9000W	15000W	15000W
Max PV voltage	1000V			
Max input current (input A/input B)	15A/15A	15A/15A	20A/30A	20A/30A
Max short current (input A/input B)	20A/20A		30A/40A	
MPPT voltage range	160V-950V			
No. of MPPT trackers	2			
String per MPPT tracker	1+1		1+2	
Input (BAT)				
Compatible battery type	Lithium-ion / Lead-acid			
Nominal battery voltage	200V-600V			
Battery voltage range	150V-600V			
Max. charge/discharge current	25A/25A	25A/25A	50A/50A	50A/50A
Max. charge/discharge power	9000W/5800W	9000W/7000W	15000W/9300W	15000W/10500W
Lithium battery charge curve	Self-adaption to BMS			
Output (Grid)				
Nominal AC output power	5000W	6000W	8000W	10000W
Max. AC output apparent power	5500VA	6600VA	8800VA	11000VA
Max. AC output power (PF=1)	5500W	6600W	8800W	11000W
Max. AC output current	3*8.3A	3*10A	3*13.3A	3*16.7A
Max. Single Phase power	2.5kW	3kW	4kW	5kW
Max. Current (Output)	11.5A	13.7A	18.2A	22.7A
Apparent Power (Input)	15kVA			
Maximum Current (Input)	3*25A	3*25A	3*25A	3*25A
Rated AC voltage	380V / 400V / 415V, 3W+N+PE			
AC voltage range	277V-520V (Adjustable)			
Rated grid frequency	50Hz / 60Hz			
AC frequency range	45Hz-55Hz/55Hz-65Hz (Adjustable)			
Grid connection	Three phase			
Power factor	>0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)			
THDI	<3% (Rated Power)			
Output (Back up)				
Nominal output power	5000W	6000W	8000W	10000W
Nominal output current	3*7.6A	3*9.1A	3*12.2A	3*15.2A
Max. single phase power	2.5kW	3kW	4kW	5kW
Max. single phase current	11.5A	13.7A	18.2A	22.7A
Maximum power(5min)	6000VA	7200VA	9600VA	12000VA
Maximum power(10s)	7500VA	9000VA	12000VA	15000VA
Nominal output voltage	380V / 400V, 3W+N+PE			
Nominal output frequency	50Hz / 60Hz			
Transfer time	10ms (typ) / 20ms (max)			
THDV	<3% (R Load), 5% (RCD Load)			
Protection				
Anti-islanding protection	Available			
AC overcurrent protection	Available			
AC short circuit protection	Available			
AC over-voltage protection	Available			
Surge Arrester	DC Type II, AC Type II			
Insulation detection	Available			
GFCI	Available			
AFCI	Optional			
RSD	Optional			
General				
Max. operation altitude	4000m (>2000m derating)			
Noise emission	30dB			
Ingress protection degree	IP65			
Operating temperature range	-25°C~45°C			
Relative humidity	0~100%			
Cooling concept	Natural Cooling			
Mounting	Wall bracket			
Dimensions (W*H*D)	530mm*550mm*212mm			
Weight	30Kg		32Kg	
PV connection	MC4 / H4			
Battery connection	Dedicated DC connector			
HMI & COM				
Display	LED+APP (Bluetooth)			
Communication interface	CAN/RS485 (for BMS), DRM/RCR (for DI) / RS485 (for Meter) 1*DO, USB (Firmware upgrade), Optional: WiFi/GPRS/4G/Ethernet			
Certification				
Grid	IEC 61727/62116, EN 50549-1, VDE 4105, AS 4777, CEI 0-21, G99, C10/11, RD627			
Safety	IEC62109-1&2, IEC62477-1			
Warranty	5 Years / 10 Years (Optional)			

- Remarks:
- The range of output voltage and frequency may vary depending upon different grid codes.
 - Specifications are subject to change without advance notice.

Single Phase Hybrid Inverter ZGE-P-S-C



Features

- »» Max efficiency 98.0%, CEC efficiency 94.5%
- »» Max. PV Power 15KW
- »» String current 30A, compatible with high power modules
- »» Advanced parallel, up to 9Pcs
- »» Split phase out available for 100% back up power
- »» Configure BMS management system to ensure high battery life
- »» Compatible with lead-acid batteries and lithium battery energy storage systems
- »» Remote configuration and upgrade

Model	ZGE-P-S-C8	ZGE-P-S-C10
Efficiency		
Max. Efficiency (PV To AC)		98.0%
Max. Efficiency (Bat To AC)		95.0%
Input(PV)		
Max. PV Power	12000W	15000W
Max. Input Voltage		600V
Max. Input Current (PV-A/PV-B)		30A/22A/22A
Max short current (input A/input B) (A)		40A/30A/30A
Start operating voltage (V)		90V
MPPT Operating Voltage Range		70V-540V
No.of MPPT trackers		3
String per MPP tracker		2
Input(Bat)		
Compatible battery type		Lithium-ion/Lead-acid
Nominal battery voltage		48V
Battery voltage range		40V-64V
Max. charge/discharge current	210A/180A	210A/210A
Max. charge/discharge power	10000W/8000W	10000W/10000W
Lithium battery charge curve		Self-adaption to BMS
Input (Grid)		
Nominal AC input power	12000W	15000W
Max. AC input current	52.5A	65.3A
Rated AC voltage		230V (Single phase)
Output (Grid)		
Nominal AC output power	8000W	10000W
Max. AC output apparent power	8800VA	11000VA
Max.AC output power (PF=1)	8800W	11000W
Max. AC output current	40A	50A
Rated AC voltage		230V, L+N+PE
Rated grid frequency		50Hz / 60Hz
Grid connection		Single phase
Power factor		> 0.99 @rated power (adjustable 0.8 LD - 0.8 LG)
THDI		<3% (Rated Power)
Output (BackUp)		
Nominal output power	8000W	10000W
Nominal output voltage		230V, L+N+PE
Nominal output frequency		50/60Hz
Nominal output current	34.8A	43.5A
Maximum power(1s)	16000VA	20000VA
Nominal output voltage		230V, L+N+PE
Nominal output frequency		50Hz / 60Hz
Transfer time		10ms (typ) / 20ms (max)
THDV		<3% @100% R Load
Protection		
Protection category		Class I
DC switch		Available
Anti-islanding protection		Available
AC overcurrent protection		Available
AC short circuit protection		Available
DC reverse connection		Available
Surge Arrester		DC Type II, AC Type II
Insulation detection		Available
Leakage current protection		Available
Diesel Generator		Extra function pending
PV overvoltage category		II
AFCI		Optional
RSD		Optional
General		
Max. operation altitude		4000m
Noise emission		<45dB
Ingress protection degree		IP65
Operating temperature range		-25~60°C (>45°C derating)
Relative humidity		0~100%
Cooling concept		Fan Cooling
Mounting		Wall bracket
Dimensions (W*H*D)		420mm*800mm*240mm
Weight (kg)		37Kg
PV connection		Terminals
BAT connection		DC special connector
HMI & COM		
Display		LED+APP
Communication interface		RS485/CAN (for BMS), DRM/RS485 (for Meter), RS485, USB, Optional: WiFi/GPRS/LAN
Certification		
Grid		NRS 0-97 / IEC61727 / IEC62116
Safety		IEC62109
EMC		EN 61000
Warranty		5 Years /10 Years (Optional)

Remarks: • The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

Split Phase Hybrid Inverter ZGE-P-S-D



Features

- »» Max efficiency 98.0%, CEC efficiency 94.5%
- »» Max. PV Power 15KW
- »» String current 30A, compatible with high power modules
- »» Advanced parallel, up to 9Pcs
- »» Split phase out available for 100% back up power
- »» Configure BMS management system to ensure high battery life
- »» Compatible with lead-acid batteries and lithium battery energy storage systems
- »» Remote configuration and upgrade

Model	ZGE-P-S-D5	ZGE-P-S-D6	ZGE-P-S-D8	ZGE-P-S-D10
Efficiency				
Max. efficiency (PV to AC)				98.0%
Max. efficiency (BAT to AC)				94.5%
Input (PV)				
MAX PV Power	7500W	9000W	12000W	15000W
Max PV voltage				600V
Max input current (input A/input B)	30A/22A		30A/22A/22A	
Max short current (input A/input B)	40A/30A		40A/30A/30A	
Start operating voltage (V)				90V
MPPT voltage range				70V-540V
No. of MPPT trackers	2			3
String per MPP tracker				2
Input (BAT)				
Compatible battery type	Lithium-ion / Lead-acid			
Nominal battery voltage	48V			
Battery voltage range	40V-64V			
Max. charge/discharge current	210A/130A	210A/130A	210A/180A	210A/210A
Max. charge/discharge power	10000W/5000W	10000W/6000W	10000W/8000W	10000W/10000W
Lithium battery charge curve	Self-adaption to BMS			
Output (Grid)				
Nominal AC output power	5000W	6000W	8000W	10000W
Max. AC output apparent power	5500VA	6600VA	8800VA	11000VA
Max. AC output power (PF=1)	5500W	6600W	8800W	11000W
Max. AC output current	25A	30A	40A	50A
Rated AC voltage	120V/240V (Split phase) / 230V (Single phase) / 208V (2/3) phase			
Rated grid frequency	60Hz			
AC frequency range	55Hz-65Hz (Adjustable)			
Grid connection	Single phase			
Power factor	> 0.99 @ rated power (Adjustable 0.8 LD - 0.8 LG)			
THDI	<3% (Rated Power)			
Output (Back up)				
Nominal output power	5000W	6000W	8000W	10000W
Nominal output current	20.9A	25A	33.4A	41.7A
Maximum power(1s)	10000VA	12000VA	16000VA	20000VA
Nominal output voltage	120V / 240V (Split phase) / 230V (Single phase) / 208V (2/3) phase			
Nominal output frequency	60Hz			
Transfer time	10ms (typ) / 20ms (max)			
THDV	<3% @100% R Load			
Protection				
Protection category	Class I			
DC switch	Available			
Anti-islanding protection	Available			
AC overcurrent protection	Available			
AC short circuit protection	Available			
DC reverse connection	Available			
Surge Arrester	DC Type III, AC Type III			
Insulation detection	Available			
Leakage current protection	Available			
PV overvoltage category	II			
AC overvoltage category	III			
AFCI	Y			
RSD	Y (MLRSD Sunspec or Tigo Transmitter)			
General				
Max. operation altitude	2000m			
Noise emission	<40dB			
Ingress protection degree	IP65			
Operating temperature range	-25°C~60°C			
Relative humidity	0~100%			
Cooling concept	Fan Cooling			
Mounting	Wall bracket			
Dimensions (W*H*D)	420mm*800mm*240mm			
Weight	37Kg			
PV connection	Terminals			
BAT connection	Dedicated DC connector			
HMI & COM				
Display	LED+APP			
Communication interface	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/Ethernet			
Certification				
Grid	UL1741SB, IEEE1547: 2018, HECO SRD 2.0			
Safety	UL 1741 / CSA C22.2 / UL 1699B			
EMC	FCC Part 15 Class B			
Warranty	5 Years / 10 Years (Optional)			

Remarks: • The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

C&I All-in-one ESS(Liquid Cooling) ZGE-CI-Z-186-372



This figure is conceptual outline only and subject to actual product update.

Features

- Standardized design, easy for maintenance;
- Realize the fault classification and protection;
- Support real-time online monitoring of system status;
- Large capacity, long life, high discharging rate;
- Easy for capacity expansion, flexible for configuration adaption.

Model	ZGE-CI-Z-186-372
Battery	
Basic	
Configuration	1P416S
Number of Pack	8
Electrical	
Charging Current	140A
Discharging Current	140A
Rated Capacity	372.7KWH
Voltage Range	1164.8~1497.6V
Rated Voltage	1331.2V
Rated Power	186.3kw,0.5P
Auxiliary Power	
Voltage Range	176~264V
Cooling Unit Power	Cooling:3.1KW;Heating:2.0KW
BMS Power	60W
Battery Cabinet	
Protection Grade	Battery:IP66;Control:IP55
Anticorrosion	C5
Cooling Mode	Liquid Cooling
PCS	
Basic	
Rated Power	200KVA
Overload Capability	Constant Operation@110%; 1 min@120%
Efficiency	Max.99%
Power Response	<20ms
Charge/Discharge Transfer	<50ms
DC	
Max DC Voltage	1500V
DC Voltage Range	1100~1500V
DC Voltage Range(100%load)	1100~1500V
AC	
Rated Voltage	750V
Rated Current	154A
Max Constant Current	169A
Voltage Range	-15%~+10%
Frequency	50/60±5Hz
THDi	<3%
Wiring Group	3/PE
General	
Working Temperature	-40~+60°C
Altitude	≤4000m
Protection Grade	IP66
Noise	≤70dB
Cooling Mode	Air Forced Cooling
Communication	
Communication Port	RS485
Communication Protocol	Modbus-RTU;TCP-IP
Installation	
Dimension(W*D*H)	1620*1350*2450mm
Weight	3895Kg
Certificate	IEC62477 IEC61000 CEI-016 VDE4110 EN50549 IEEE1547.1 UL1741 IEC62619 UL1973 UL9540A

C&I All-in-one ESS(Air Cooling)

ZGE-CI-Z-100-200



This figure is conceptual outline only and subject to actual product update.

Features

- Standardized design, easy for maintenance;
- Realize the fault classification and protection;
- Support real-time online monitoring of system status;
- Large capacity, long life, high discharging rate;
- Easy for capacity expansion, flexible for configuration adaption.

Model	ZGE-CI-Z-100-200
Basic	
Configuration	1P224S
Number of Pack	14
Short-Circuit Current	12.2KA
Connection Mode	Fast Plug
Electrical	
Rated Charging Current	140A
Max. Charging Current	160A Lasts 1minute
Nominal Capacity	200KWH
Voltage Range	604.8~817.6V
Nominal Voltage	716.8V
Auxiliary Power	
Max. Continuous Current	160A
Rated Power	100kW(0.5P)
Cooling Unit Power	Cooling:3.1KW;Heating:2.0KW
Voltage Range	176-264V
BMS Power	6kW
Battery Cabinet	
Anticorrosion	C5
IP rating	Battery:IP66,Control:IP55,NEMA 3R
Power Connection	Fast Plug
Grounding Mode	≤ 4Ω, Meet the Local Scope Requirements
Cooling Mode	Air Cooling
Storage Environment Temperature	-30~60 °C
Operating Environment Temperature	-25 ~55 °C
Environment Humidity	RH≤95% (Non-Condensing)
Altitude Requirements	2000m(>2000m Derating)
PCS	
Basic	
Rated Power	100kVA
Overload Capability	Constant Operation@110%; 1 min@120%
Efficiency	99%
Power Response Time	<20ms
Charge/Discharge Switching Time	<50ms
Operating Environment Temperature	-40~+60°C (>50°C Derating)
Installation	Wall Mounted
Altitude	4000m (>3000mDerating)
IP rating	IP66
Cooling Mode	Air Cooling
Isolation Method	Non-Isolated
DC side	
Max. Voltage	1000V
Operating Voltage Range	600~1000V
Full Load Operating Voltage Range	600~1000V
AC side	
Rated Voltage	380V
Rated Current	263A
Max. Long-Term Operating Current	289A
Voltage Range	±15%
Frequency	50/60Hz±5Hz
Total Current Harmonics	<3%
Wiring Method	3/PE
General	
Dimension	2450*1760*1475mm
Weight	2580kg
Color	RAL7035
Communication	
Communications Interface	RS485
Communications Protocol	Modbus-RTU/Modbus-TCP
Certificate	IEC62477 IEC61000 CEI-016 VDE4110 EN50549 IEEE1547.1 UL1741 IEC62619 UL1973 UL9540A

C&I Energy Storage Battery Cabinet ZGE-B-Z-H372



This figure is conceptual outline only and subject to actual product update.

Features

- Robustness & reliability;
- Real time monitoring and protecting;
- Flexible for configuration adaption;
- International certificates T ü V, UL etc. available or On-demand.

Model	ZGE-B-Z-H372
Basic	
Configuration	1P416S
Number of Pack	8
Electrical	
Charging Current	140A
Discharging Current	140A
Rated Capacity	372.7KWH
Voltage Range	1164.8~1497.6V
Rated Voltage	1331.2V
Rated Power	186.3kw,0.5P
Auxiliary Power	
Voltage Range	176~264V
Cooling Unit Power	Cooling:3.1KW;Heating:2.0KW
BMS Power	60W
Battery Cabinet	
Dimension(W*D*H)	1350*1350*2450mm
Weight	3800kg
Protection Grade	Battery:IP66;Control:IP55
Anticorrosion	C5
Cooling Mode	Liquid Cooling
Communication	RS 485, CAN, TCP/IP
Certificate	IEC62619;EN61000-2/-4;UL1973;UL9540A



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