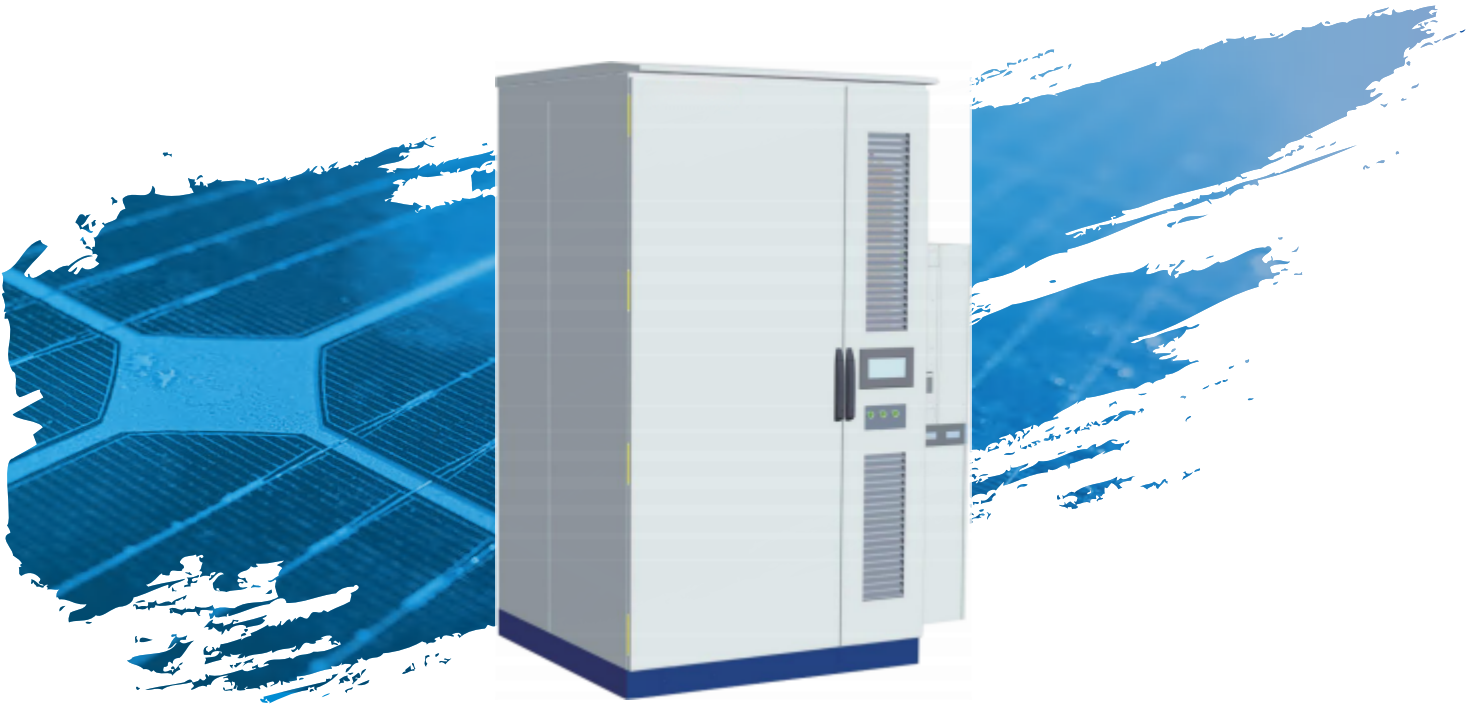


# C&I All-in-one ESS(Liquid Cooling) ZGE-CI-Z-186-372



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
<b>Battery</b>	
<b>Basic</b>	
Configuration	1P416S
Number of Pack	8
<b>Electrical</b>	
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
<b>Auxiliary Power</b>	
Voltage Range	176~264V
Cooling Unit Power	Cooling:3.1KW;Heating:2.0KW
BMS Power	60W
<b>Battery Cabinet</b>	
Protection Grade	Battery:IP66; Control:IP54
Anticorrosion	C5
Cooling Mode	Liquid Cooling
<b>PCS</b>	
<b>Basic</b>	
Rated Power	200KVA
Overload Capability	Constant Operation@110%; 1 min@120%
Efficiency	Max.99%
Power Response	<20ms
Charge/Discharge Transfer	<50ms
<b>DC</b>	
Max DC Voltage	1500V
DC Voltage Range	1100~1500V
DC Voltage Range(100%load)	1100~1500V
<b>AC</b>	
Rated Voltage	750V
Rated Current	144A
Max Constant Current	158A
Voltage Range	-15%~+10%
Frequency	50/60±5Hz
THDi	<3%
Wiring Group	3/PE
<b>General</b>	
Working Temperature	-25~+55°C
Altitude	≤2000m
Protection Grade	IP66 & IP54
Noise	≤70dB
Cooling Mode	Liquid Cooling (battery), Air Forced Cooling(PCS)
<b>Communication</b>	
Communication Port	RS485
Communication Protocol	Modbus-RTU;Modbus-TCP
<b>Installation</b>	
Dimension(W*D*H)	1760*1500*2500mm
Weight	3895Kg
Certificate	IEC62477 IEC61000 CEI-016 VDE4110 EN50549 IEEE1547.1 UL1741 IEC62619 UL1973 UL9540A

# Air Cooling Energy Storage(All In One) ZGE-CI-Z-100-215



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-100-215
<b>Basic</b>	
Configuration	IP240S
Number of Pack	15
Short-circuit current	12.2kA
<b>Electrical</b>	
Rated charging Current	140A
Max. Charging Current	160A lasts 1minute
Nominal Capacity	215KWH
Voltage Range	600~876V
Nominal Voltage	768V
Max. continuous current	160A
Rated Power	100kW(0.5P)
<b>Auxiliary Power</b>	
Cooling Unit Power	Cooling:3.1KW;Heating:2.0KW
Voltage range	176-264V
BMS Power	60W
<b>System</b>	
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	<4000m(>3000m Derating)
Dimension	1500*1400*2550mm
Weight	2800kg
Color	RAL7035
<b>PCS</b>	
<b>Basic</b>	
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
IP rating	IP66
Cooling Mode	Air Cooling
Isolation Method	Non-Isolated
<b>DC side</b>	
Max. Voltage	1000V
Operating Voltage Range	600~1000V
Full Load Operating Voltage Range	600~1000V
<b>AC side</b>	
Rated Voltage	380V
Rated Current	152A
Max. Long-Term Operating Current	167A
Voltage Range	±15%
Frequency	50/60Hz±5Hz
Total Current Harmonics	<3%
Wiring method	3/PE
<b>Communication</b>	
Communications Interface	RS485
Communications Protocol	Modbus-RTU/Modbus-TCP
Certificate	IEC62477 IEC61000 CEI-016 VDE4110 EN50549 IEEE1547.1 UL1741 IEC62619 UL1973 UL9540A

# 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.

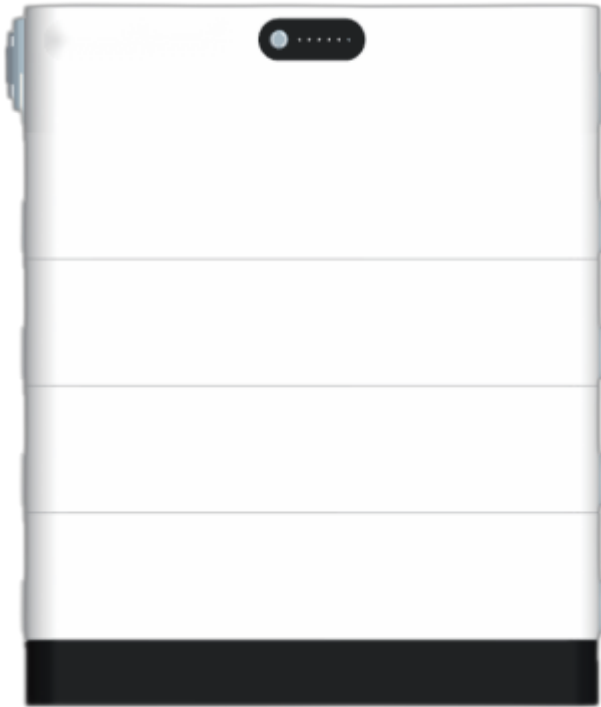
### INTELLIGENT MAINTENANCE

- 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
<b>DC Input (PV)</b>				
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	
<b>DC Input (Battery)</b>				
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
<b>AC Output (Grid)</b>				
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			
<b>AC Output (Backup)</b>				
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			
<b>Efficiency</b>				
Max Efficiency	97.5%			
Europe Efficiency	97%			
MPPT Efficiency	≥99.5%			
<b>General</b>				
Dimenssion (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	Natrual Cooling			
Altitude	3000m(>2000m Derating)			
DC Terminal	H4			
<b>Communication</b>				
Display Screen	LED+LCD			
Communication Port	RS485/CAN/WiFi(Optional)			
Function	VPP/CAN/DRM/METER BUS/NTC/DRY			
<b>Protection</b>				
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			
<b>Certification</b>				
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.			

# 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
<b>Basic</b>						
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					
<b>Structure</b>						
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					
<b>Working Environment</b>						
Temperature Range for Charging	0~60°C					
Temperature Range for Discharging	-20~60°C					
Altitude	2500m					
Humidity	5~95%					
IP Rating	IP65					
<b>Communication</b>						
Communication Port	RS485/CAN					
Display	SOC Indicator					
Certificates	IEC62619; EN61000-6-1/-2/-3/-4; UL1973; UL9540A; UN38.3;MSDS					