

# 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>				
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			
<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.			