

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.