



IP66 High level protection



LCD Color Screen Operation



AC couple to retrofit existing solar system



200% PV Input Maximizes Solar Energy Utilization



Max 210A Charge/ Discharge Current



Support up to 9 unit in parallel



Single PV Operation Supported



Dual back up output



UPS Switch Over time < 10ms

TECHNICAL SPECIFICATION

MODEL	ZING-SP66-6KW
Rated Power	6000VA/6000W
BATTERY INPUT PARAMETERS	
Battery Type	Lithium or Lead-acid Battery
Battery Voltage Range(V)	40~60
Max. Charging Current (A)	125
Max. Discharging Current (A)	125
Lithium Battery Comm.	Self-adaption to BMS
Number of Battery Inputs	1
PV INPUT DATA	
Max. PV Input Power(W)	12000
Max. PV Input Voltage(V)	500
MPPT Voltage Range(V)	150~425
Start-up Voltage(V)	125
Max. Current per MPPT (A)	20/20
Number of MPP Trackers	2/1+1
AC INPUT / OUTPUT PARAMETERS	
Rated AC Input/Output Active Power (WATTS)	6000
Max. AC Input/Output Apparent Power (VA)	6600
Peak Power (Off-grid) (W)	>200%,15sec
Rated AC Input/Output Current (A)	27.3/26.1
Max. AC Input/Output Current (A)	30/28.7
Max. Continuous AC Bypass (Grid to Load) (A)	40
Rated AC Input/Output Voltage Range (V)	220V/230V 0.85Un-1.1Un
Grid Connection Type	L+N+PE
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz
Power Factor Adjustment Range	1(0.8 leading - 0.8 lagging)
Total Harmonic Distortion (THDi)	<3%(of nominal power)
DC Injection Current	<0.5%In
EFFICIENCY	
Max. Efficiency	97.6%
European Efficiency	96.5%
MPPT Tracking Efficiency	>99%
EQUIPMENT PROTECTION	
Integrated Protections: DC Reverse Polarity, AC Output Overcurrent, Over-temperature, AC Output Overvoltage, Short Circuit, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI, optional), Anti-islanding Protection, DC Switch, Insulation Resistance Detection, Residual Current Detection	
Surge protection level	Type I (DC), Type II (AC)
INTERFACE	
Communication Interfaces	RS485/CAN
Monitoring modes	GPRS / WiFi / Bluetooth / 4G / LAN (optional)
GENERAL PARAMETERS	
Operating Temperature (°C)	-25 ~+60 (derating above 45°C)
Storage Temperature (°C)	-30~65
Relative Humidity	0~100%
Operating Altitude (m)	≤2000m
Cooling Method	Smart fan cooling
Noise (dB)	<30dB
Weight (kg)	13kg
Dimensions (W × H × D mm)	480*338*205
IP Rating	IP66
Topology	High-frequency isolation (battery side)
Safety / EMC Certification	IEC62109,IEC61000,IS16169 & IS16221(BIS)
Grid Compliance	IEC61727,EN50549-1,VDE-4105,NRS-097-2-1,OVE-Richtlijn R25, UNE217001/2, Ordinance No.140
Other Certifications	IEC61683, IEC62116,EN50530,IEC60068