



Three-phase On-grid String Inverter Datasheet

ZXEPG S050E



Product Highlights

High Yield

- Compatible with bifacial PV modules
- 1.1 times continuous output overload

Intelligent O&M

- Accurate string current detection
- Support export power limit
- Local & remote maintenance

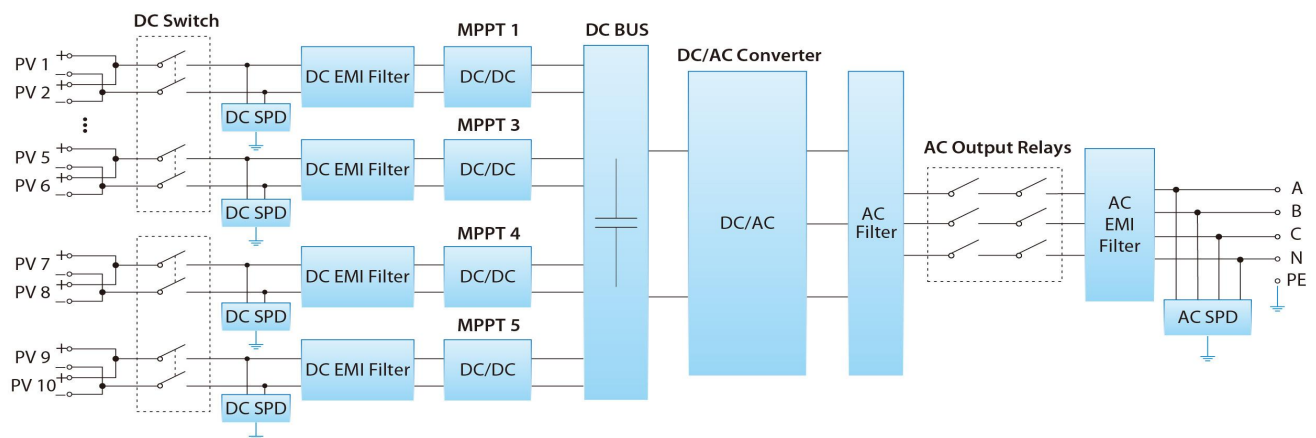
Safe & Reliable

- IP66 protection & C5 anti-corrosion rating
- Type II SPD, both DC & AC sides
- Smart AFCI Function

User-Friendly Design

- Convenient handle design
- Quickly set up smart monitoring via APP

Circuit Diagram





Technical Parameters

Product Model	ZXEPG S050E
DC input parameters	
Max. PV Input Voltage	1100V
Max. PV Power(STC)	75kWp
Rated PV Input Voltage	620V
Start DC Voltage	250V
MPPT Voltage Tracking Range	200V~1000V
Number of MPPT Channels	5*2
Max. Current Per MPPT	32/32/32/32/32A
Max. Short Circuit Current Per MPPT	50
AC output parameters	
Rated Output Power	50kW
Max. Output Power	55kVA
Max. Output Current	79.7A
Nominal Grid Voltage	3/N/PE 230/400V
AC Voltage Range	320V-480V (According to the local standards)
AC Frequency	50/60Hz
AC Frequency Range	45~55Hz, 55~65Hz (According to the local standards)
Power Factor	0.8leading-0.8lagging
Harmonic (THD)	<3%
Efficiency	
Max. Efficiency	98.60%
EU Efficiency	98.30%
Protection	
Leakage Current Protection	Yes
Anti-island Protection	Yes
DC Reverse Protection	Yes
AC Short Circuit Protection	Yes
PV String Current Detection	Yes
PID Recovery	Optional
DC Switch	Yes
AFCI Function	Yes
Surge Protection	DC II/AC II
Insulation Monitoring	Yes
Basic Parameters	
Dimensions (W*H*D)	698×594×274mm
Weight	50kg
Protection Level	IP66
Self-Consuming At Night	< 1W
Cooling Mode	Smart Fan Cooling
Max. Operating Altitude	4000m(>3000m derating)
Operating Temperature	-25℃ ~60℃
Relative humidity	0~100%
Display	LED, OLED(optional)
Communication Port	RS485, WIFI
Standard	IEC/EN62109-1/2, IEC/EN 61000-6-1/2/3/4, EN50549-1,CEI-0-21

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