

Single Phase Hybrid Inverter with Grid Feeding
& IP54 Protection



Zapher 9.2kW & 11.2kW



Models:

XZ-9.2kW-16000pV

XZ-11.2kW-18000pV

Dual Input **GEN/AC**

Dual **MPPT**

IP54 Protection



In Built Wifi



HMI
Touchable
Screen



Dual MPPT



Dual Input
(GEN/AC)



Intelligent Load
Management



Dual Output



Grid Feeding



IP54
Protection



BMS



Parallel
upto 9 Units



Easy-to-install

- IP54 waterproof and dustproof makes the inverter available for various working conditions.
- HMI touchable screen
- Dual outputs, for smart load management
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)



Reliable

- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Built-in 2 MPP trackers based on models



User-Friendly

- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- Parallel operation with 9 units
- Dual Input (GEN/AC) for flexible power source connectivity and automatic switching between generator and AC input.

Technical Datasheet

MODEL	XZ-9.2kW-16000pV	XZ-11.2kW-18000pV
RATED OUTPUT POWER	9200VA/9200W	11200VA/11200W
Max. PV Power	16000W	18000W
Max. PV Array Open Circuit Voltage	500 VDC	
MPPT Range @ Operating Voltage	120 VDC~450 VDC	
Max. PV Array Maximum Imp/per MPPT	2×27A	
Max. PV Array Maximum Isc/per MPPT	2×34A	
Number of MPPT Tracker	2	
GRID-TIE OPERATION		
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Feed-in Grid Voltage Range	184 ~ 264.5 VAC @Germany regulation 184 ~ 264.5 VAC @South America regulation 195.5~253 VAC @South Africa 182 ~ 260 VAC @ Pakistan	
Feed-in Grid Frequency Range	47.5~51.5Hz @Germany regulation 57~62Hz @South America 47.5~52Hz @South Africa 45.1~54.9Hz @Pakistan	
Nominal Output Current	40A	48.7A
Power factor Range	>0.99	
Maximum Conversion Efficiency (DC/AC)	97%	
OFF-GRID, HYBRID OPERATION		
GRID INPUT		
Acceptable Input Voltage Range	90 - 300 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Transfer Time	< 20ms (for home appliances) < 50ms (for parallel system operation)	
Rating of AC Transfer Relay	60A	
GENERATOR INPUT		
Acceptable Input Voltage Range	90 - 300 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Rating of AC Transfer Relay	60A	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Waveform	Pure Sine Wave	
Efficiency (DC to AC)	93%	
BATTERY & CHARGER		
Nominal DC Voltage	48 VDC	
Maximum Charging Current (from Grid)	190A	210A
Maximum Charging Current (from PV)	190A	210A
Maximum discharging Current	190A	210A
GENERAL		
Dimension, D X W X H (mm)	192 x 418 x 633	
Net Weight (kgs)	28	29
INTERFACE		
Parallel-able	Yes	
External Safety Box (Optional)	Yes	
Communication	USB or RS232 / RS 485/WIFI	
ENVIRONMENT		
Humidity	0 ~ 95% RH (no condensing)	
Operating Temperature	-25°C to 50°C	