

Single Phase Hybrid Inverter with Grid Feeding
& IP66 Protection

Zapher 6.6kW | 9.2kW | 11.2kW



Models:

XZ-6.6kW-12000pV

XZ-9.2kW-16000pV

XZ-11.2kW-18000pV

Dual Input **GEN/AC**

Dual **MPPT**

IP65 & IP66 Protection



In Built Wifi



HMI
Touchscreen



Dual MPPT



Dual Input
(GEN/AC)



Intelligent Load
Management



Dual Output



Grid Feeding



IP65 & IP66
Protection



BMS



Parallel
upto 9 Units



Easy-to-install

- IP65 & IP66 waterproof and dustproof makes the inverter available for various working conditions.
- HMI touchscreen
- 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-6.6kW-12000pV	XZ-9.2kW-16000pV	XZ-11.2kW-18000pV
Rated Output Power	6600W	9200VA/9200W	11200VA/11200W
Max. PV Power	12000W	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	2×21A	2×27A	2×34A
Max. PV Array Maximum Isc/per MPPT	28.7A		
Number of MPPT Tracker	2		
GRID-TIE OPERATION			
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Feed-in Grid Voltage Range	195.5~253 VAC @India regulation 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	49~51Hz @India regulation 47.5~51.5Hz @Germany regulation 57~62Hz @South America 47~52Hz @ South Africa 45.1~54.9Hz @ Pakistan	49.5Hz~50.5Hz @India regulation 47.5~51.5Hz @Germany regulation 57~62Hz @South America 47.5~52Hz @South Africa 45.1~54.9Hz @Pakistan	
Nominal Output Current	26.25A	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 - 290 VAC or 170 - 290 VAC	90 - 300 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)		
Transfer Time	< 15ms for single system operation < 50ms (for parallel system operation)	< 20ms (for home appliances) < 50ms (for parallel system operation)	
Rating of AC Transfer Relay	40A	60A	
GENERATOR INPUT			
Acceptable Input Voltage Range	90 - 290 VAC	90 - 300 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)		
Rating of AC Transfer Relay	40A	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)	135A	190A	210A
Maximum Charging Current (from PV)	135A	190A	210A
Maximum discharging Current	135A	190A	210A
GENERAL			
Dimension, D X W X H (mm)	435 x 325 x 171	192 x 418 x 633	
Net Weight (kgs)	16	28	29
Parallel-able	Yes		
External Safety Box (Optional)	Yes		
INTERFACE			
Communication	USB or RS232 / WIFI / BMS RS485 / CAN		
ENVIRONMENT			
Humidity	0 ~ 95% RH (no condensing)		
Operating Temperature	-25°C to 50°C		