

Single Phase Hybrid Inverter with Grid Feeding
& IP54 Protection



Zapher 6.6kW



Models:

XZ-6.6kW-12000pV

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-6.6kW-12000pV
Rated Output Power	6600W
Max. PV Power	12000W
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
Max. PV Array Maximum Isc/per MPPT	26.25A
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 47~52Hz @ South Africa 45.1~54.9Hz @ Pakistan
Nominal Output Current	28.7A
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
Frequency Range	50 Hz/60 Hz (Auto sensing)
Transfer Time	< 15ms for single system operation < 50ms (for parallel system operation)
Rating of AC Transfer Relay	40A
GENERATOR INPUT	
Acceptable Input Voltage Range	90 - 290 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing)
Rating of AC Transfer Relay	40A
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
Maximum Charging Current (from PV)	135A
Maximum discharging Current	135A
GENERAL	
Dimension, D X W X H (mm)	435 x 325 x 171
Net Weight (kgs)	16
INTERFACE	
Parallel-able	Yes
External Safety Box (Optional)	Yes
Communication	USB or RS232 /WIFI/BMS RS485/CAN)
ENVIRONMENT	
Humidity	0 ~ 95% RH (No condensing)
Operating Temperature	-25°C to 50°C