CUSTOMER SUPPORT & SALES HELPLINE
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Knox Zapher Single Phase Hybrid Inverter

Grid Feeding & IP65/IP66 Weather Protection | 6.6kW / 9.2kW / 11.2kW

Dual MPPT TRACKER | **IP66** PROTECTION | **9 Units** PARALLEL

Dual MPPT & Dual Output
Optimized solar input with intelligent load management capabilities.

Dual Input (GEN / AC)
Flexible power source connectivity with automatic generator switching.

BMS & Built-In Wi-Fi
Reserved ports for RS485, CAN-BUS, RS232, and HMI Touchscreen interface.

High Surge Capacity
Supports grid feeding with battery-independent operational design.

Easy-to-Install

- IP65 & IP66 dustproof & waterproof design for extreme environments.
- Interactive HMI Touchscreen for easy setup.
- Dual outputs for smart load management.
- Dedicated BMS communication ports.

Reliable & Maintenance

- Replaceable fan design for straightforward field maintenance.
- Battery independent operation mode.
- Configurable AC/PV timer and prioritization.
- Built-in 2 MPP trackers for maximum yield.

User-Friendly

- Selectable input voltage range for home appliances & PCs.
- Compatible with utility mains or generator.
- Parallel operation up to 9 units for expanded capacity.
- Seamless automatic AC/Generator switching.

Technical Specifications

Smart Solar Official Datasheet

MODEL NAME	XZ-6.6KW-12000PV	XZ-9.2KW-16000PV	XZ-11.2KW-18000PV
Rated Output Power	**6600 W**	**9200 W / 9200 VA**	**11200 W / 11200 VA**
Max. PV Input Power	12000 W	16000 W	18000 W
Max. PV Open Circuit Voltage / MPPT Range	500 VDC / 120 VDC ~ 450 VDC		
Max. PV Current per MPPT (Imp / Isc)	2 × 21A / 28.7A	2 × 27A / 28.7A	2 × 34A / 28.7A
MPPT Trackers	2 Trackers		
GRID-TIE & AC OUTPUT SPECIFICATIONS			
Nominal Output Voltage	220 / 230 / 240 VAC		
Feed-in Grid Frequency (Pakistan Range)	45.1 Hz ~ 54.9 Hz (Pak Regulation Compliant)		
Nominal Output Current	26.25 A	40.0 A	48.7 A
Max Conversion Efficiency (DC/AC)	97.0%		
OFF-GRID & BATTERY SPECIFICATIONS			
Nominal DC Voltage	48 VDC		
Max Charge / Discharge Current	135 A	190 A	210 A
Acceptable AC Input Voltage	90 - 290 VAC	90 - 300 VAC	
Transfer Time	< 15-20 ms (Single) / < 50 ms (Parallel)		
Dimensions (D × W × H mm) & Weight	435 × 325 × 171 mm (16 kg)	192 × 418 × 633 mm (28 kg)	192 × 418 × 633 mm (29 kg)

• Single Phase Hybrid • Pure Sine Wave Output • IP65 / IP66 Weatherproof • RS485 / CAN-BUS / Wi-Fi • Parallel Support (9 Units)