Three Phase Hybrid Inverter with Grid Feeding & IP65 Protection

Zapher 20kW



Models:
XZ-20kW-30000pV.3p

Dual Input GEN/AC

Three MPPT

IP65 Protection

In Built Wifi

HMI Touchable Screen

3 MPPT

Dual Input (GEN/AC)

Intelligent Load Management

Dual Output

Grid Feeding

IP65 Protection

BMS

Parallel upto 9 Units

Easy-to-install

- IP65 Indoor or outdoor installation
- MC4 PV connectors, convenient for installation
- Multiple built-in protections, with optional AFCI 2.0/RSD /Battery breaker
- Seamless transition to backup mode, for protection against power outages
- Intelligent Management, local & remote monitoring

Reliable

- 3 MPPTs with Max. PV input power of 30kW
- Support high power module with 20A PV input current
- Up to 380A max. charging /discharging current
- Max. Grid Passthrough Current of 45A
- 3-Phase unbalanced output: Increase the self-use rate of solar energy

User-Friendly

- Support 40–60V Lithium or Lead-acid battery
- Support smart load/generator /AC Coupling
- Max. 9 units parallel for on-grid and off-grid operation
- 4.3" LCD color touchscreen, easy to operate
- 6 time periods for battery charging/discharging

SMART SOLAR

Contact: 03102984444

Technical Datasheet

MODEL	XZ-20KW-30000PV.3P
EFFICIENCY	
Max. Efficiency	97.60%
European Efficiency	97.00%
INPUT (PV)	
Max. PV Access Power	40,000W
Max. PV Usable Power	30,000W
Max. PV Input Voltage	1,000V
Start-up Voltage	120V
MPPT Operating Voltage Range	160V-980V
Max. Input Current per MPPT	20A/20A/20A
Max. Short Circuit Current per MPPT	30A/30A/30A
No. of MPP Trackers	3
No. of Strings per MPP Tracker	1/1/1
INPUT/OUTPUT (BAT)	
Battery Type	Lithium-ion/Lead-acid
No. of Battery Input	2*
Nominal Battery Voltage	48V
Battery Voltage Range	40V-60V
Max. Charge/Discharge Current	380A/380A
Max. Charge/Discharge Power	20,000W/20,000W
INPUT/OUTPUT (GRID)	
Nominal AC Output Power	20,000W
Max. AC Output Apparent Power	22,000VA
Nominal AC Output Current	3×30.3A/3×29A/3×27.8A
Max. AC Output Current	3×33.3A
Max. Single Phase Power	8,500W
Max. Grid Passthrough Current	45A
Nominal Voltage	220V/380V; 230V/400V; 240V/415V
Nominal Frequency	50Hz/60Hz
Power Factor	>0.99 @ rated power
THDI	<3% @ rated power
OUTPUT (BACK UP)	
Nominal AC Output Power	20,000W
Max. AC Output Apparent Power	22,000VA
Peak Output Apparent Power	150% @ 10s
Transfer Time	<10ms (Typical)
THDV	<3% @100% R Load
INPUT (GENERATOR)	
Max. Input Power	30,000W
PROTECTION	
Protection Category	Class I
PV Switch	Yes
Anti-islanding Protection	Yes
Overcurrent Protection	Yes
PV Reverse Polarity Protection	Yes
Overvoltage Protection	Yes
Surge Protection	DC Type II, AC Type II
Insulation Resistance Detection	Yes
Residual Current Protection	Yes
Built-in Battery Breaker	400A, Optional
AFCI 2.0/RSD	Optional
GENERAL	
Max. Operation Altitude	4,000m (>2,000m derating)
Ingress Protection Degree	IP65
Operating Temperature Range	-25°C~60°C (>45°C derating)
Relative Humidity	0~100%
Cooling Method	Smart Cooling
Mounting	Wall Bracket
Dimensions (W*H*D)	460×742×266 mm
Weight	50kg
HMI & COM	
Display	LED+LCD
Communication Interfaces	RS485/CAN (BMS), RS485 (Meter), DRMs, CAN, 2*DO, 2*DI, USB
CERTIFICATION	
Safety	IEC/EN 62109-1/-2
EMC	IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 62920
Grid	IEC 61727/62116, IEC 60068, IEC 61683, EN50549-1/10, CEI 0-21
Warranty	5 Years / 10 Years (optional)