

Single Phase Off-Grid Inverter



Max. PV input voltage 500V



Wide voltage compatibility: Supports 12V, 24V, and 48V battery systems



Battery activation via PV and utility grid



Dual outputs for intelligent load management



Real-time 24/7 remote monitoring



Flexible operation modes to meet diverse energy needs



EQ function for enhanced battery performance and longevity



XAVIER 2.5KW



Model		XAVIER 2.5K/12V
Input (PV DC)		
Max. PV array power (W)		3000
Number of independent MPPT inputs		1
Max. PV input voltage (V)		500
MPPT voltage range (V)		30 ~ 440
Start-up voltage (V)		65
Max. PV input current per MPPT (A)		18
Max. Short-circuit current per MPPT (A)		20
Battery		
Compatible battery type		Lithium-ion / Lead-acid
Rated battery voltage (V)		12
Max. AC charge current (A)		100
Max. PV+AC charge current (A)		120
Max. discharging current (A)		140
Force wake up battery from PV function		Yes
Force wake up battery from Grid function		Yes
Grid		
Rated AC voltage (V)		230
AC voltage range (V)		170-280VAC (For Personal Computer); 90-280VAC (For Home Appliances)
Rated AC frequency (Hz)		50 / 60
Max. AC input power (W)		5000
PF		0.99
THDI		< 3%
UPS		
Rated output power (W)		1500 (BAT) / 2500 (PV+BAT)
Rated output voltage (V)		220 / 230VAC + 5%
Rated output current (A)		6.5 / 10.9
Rated output frequency (Hz)		50 / 60
Output port		Single outputs
Surge power, duration		2 × rated power for 2s
Switching time (UPS)		<10ms@Single
Wave form		Sine wave
THDV		3%
Overload protection		5s@≥150% load; 10s@110%~150% load
Efficiency		
MPPT efficiency		99.0%
Max. charge efficiency		96.0%
Max. discharge efficiency		89.0%
Protection		
Over current / voltage protection		Yes
AC short-circuit current protection		Yes
DC surge protection		Type III
AC surge protection		Type III
General		
Dimensions (W × H × D)		304.4×320×101 mm 12.0×12.6×4.0 in
Weight		5.4 kg / 12 lbs
Ingress protection rating		IP21
Relative humidity		5% ~ 95%
Operating environment temperature range (°C)		-10 ~ 45 (> 40 °C Derating)
Storage temperature range (°C)		-15 ~ 60
Display & Communication interface		LCD + LED; WIFI
Warranty		1.5 years
Cooling method		Smart Cooling
Max. operating altitude (m)		2000