

*The
Champion's
Choice*

Higher · Faster · Smarter

FOX
ESS

P3 Plus

THREE-PHASE HYBRID INVERTER

P3 Plus is a state-of-the-art hybrid inverter models designed for maximum efficiency and reliability. With outstanding specifications and advanced features it is a market changer in commercial applications.



50kW ...➡➡ 125kW



Advanced System Monitoring
with **FoxCloud 2.0**



LONG BACK UP CAPABILITY

More than 6 hours backup power available.



EPS FUNCTION

Up to 0 ms load-side disruption.



HIGH PERFORMANCE

Supports 100% unbalanced three-phase output.



DISPLAY

Color LCD screen.



www.fox-ess.com

DATASHEET

TECHNICAL SPECIFICATIONS

MODEL	P3-50-Plus	P3-60-Plus	P3-80-Plus	P3-100-Plus	P3-125-Plus
PV INPUT					
Max. Array Power [kW]	100	120	160	200	250
Max. Input Power [kW]	100	120	160	200	250
Withstand Voltage [V]			1000		
Input Voltage Range [V]			180 ~ 950		
Max. MPPT Input Current [A]			40		
Max. MPPT Short Circuit Current [A]			50		
MPPT Voltage Range [V]			180 ~ 850		
Start-up Voltage [V]			180		
No. of MPP Trackers	4	4	8	8	8
Strings per MPP Tracker			2		
BATTERY SPECIFICATION					
Battery Type			LFP (LiFePO ₄)		
Voltage Range [V]			180 ~ 950		
Max. Charging/Discharging Current [A]			240 (80+80+80)		
Battery Port			3		
Communication			CAN*3		
AC OUTPUT (GRID)					
Nominal AC Power [kW]	50	60	80	100	125
Max. AC Output Power [kVA]	55	66	88	110	137.5
Rated AC Output Current (Per Phase) [A]	76	91.2	121.6	152	190
Max. AC Output Current (Per Phase) [A]	83.6	100.3	133.7	167.2	198.5
Nominal AC Voltage [V]			380/400, 3W+N+PE or 3W+PE		
AC Voltage Range [Un]			0.8 ~ 1.2		
Nominal AC Frequency [Hz]			50/60		
Frequency Range [Hz]			50/60, ±5		
Power Factor			0.8 Leading ~ 0.8 Lagging		
THDi [%]			<3 @Rated Power		
AC INPUT (GRID/GENERATOR)					
Max. AC Input Power [kVA]			207		
Max. Bypass Current [A]			300		
Nominal AC Voltage [V]			380/400, 3W+N+PE or 3W+PE		
Frequency Range [Hz]			50/60, ±5		
EPS OUTPUT (LOAD)					
Max. AC Output Power [kVA]	55	66	88	110	137.5
Peak AC Output Power [kVA] (10s)			155		
LRA Current [A]			300		
Nominal AC Voltage [V]			380/400, 3W+N+PE or 3W+PE		
Nominal AC Frequency [Hz]			50/60		
Switching Time [ms] ^[1]			Up to 0		
THDv [%]			<3 @Rated Power		
EFFICIENCY					
European Efficiency [%]			98.1		
Max. Efficiency [%]			98.5		
PROTECTION					
DC Input Switch			Yes		
Battery Reverse Polarity			Yes		
PV Reverse Polarity			Yes		
AC Overcurrent Protection			Yes		
AC Output Short Circuit Protection			Yes		
AC/DC Surge Protection			Class II		
ISO Detection			Yes		
Residual Current Detection			Yes		
Ground Fault Detection			Yes		
AFCI			Yes		
Terminal Overtemperature Protection			Yes		
String Current Detection			Yes		
GENERAL SEPECIFICATION					
Dimensions (W*H*D) [mm]			730*1060*305		
Weight [kg]	115	115	120	120	120
Operating Temperature [°C]			-30 ~ 60		
Cooling Method			Smart Air Cooling		
Operating Altitude [m]			4000		
Humidity [%]			0 ~ 100		
Noise [dB]			<70		
Standby Consumption [W]			<60		
DC-Link EV Charger Ready [kW]			20 ~ 50		
Ingress Protection (IP) Rating			IP65		
Topology			Non-Isolation		
Display			LED, LCD, Wi-Fi+APP		
Communication Ports			USB / RS485 / Bluetooth / Wi-Fi+LAN / 4G(Optional) / CAN		

[1] Test condition: With the grid disconnected, both the rated power of the P3 Plus and the battery's output power capability shall exceed the total power demand of the backup loads.