



P3 Plus

THREE-PHASE **HYBRID INVERTER**



LONG BACK UP CAPABILITY

More than 3 hours backup power available.



EPS FUNCTION

Less than 10ms switch time.



HIGH EFFICIENCY

Ensuring optimal energy conversion and minimal losses.



FLEXIBLE APPLICATION

With power range and battery configuration to suit different project requirements.



Advanced System Monitoring
with **FoxCloud V2.0**

Fox ESS 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



For more information about the Fox ESS range, visit:
www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	P3-50-Plus	P3-60-Plus	P3-75-Plus	P3-80-Plus	P3-100-Plus	P3-125-Plus
PV INPUT						
Max. Array Power [kW]	100	120	150	160	200	250
Max. Input Power [kW]	100	120	150	160	200	250
Withstand Voltage [V]				1000		
Nominal DC Operating Voltage [V]				750		
Input Voltage Range [V]				180 ~ 950		
Max. MPPT Input Current [A]				40		
Max. MPPT Short Circuit Current [A]				55		
MPPT Voltage Range [V]				180 ~ 850		
Start-up Voltage [V]				180		
No. of MPP Trackers	4	4	8	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						
Nominal AC Power [W]	50000	60000	75000	80000	100000	125000
Max. AC Output Power [VA]	55000	66000	82500	88000	110000	137500
Max. AC Output Current (Per Phase) [A]	83.6	100.3	125.4	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						
Max. AC Input Power [VA]				207000		
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 [VA]	55000	66000	82500	88000	110000	137500
Peak AC Output Power [VA] (10s)				155000		
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]				<10		
THDv [%]				<3 @Rated Power		
EFFICIENCY						
European Efficiency [%]				97.6		
Max. Efficiency [%]				98.2		
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*990*305		
Weight [kg]	105	105	115	115	115	115
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, Wi-Fi+APP		
Communication Ports				USB / RS485 / Bluetooth / Wi-Fi+LAN / 4G(Optional) / CAN		