

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

Less than 10ms switch time.



HIGH PERFORMANCE

Supports 100% unbalanced three-phase output.



DISPLAY

Color LCD screen.



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		
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	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	75	80	100	125
Max. AC Output Power [kVA]	55	66	82.5	88	110	137.5
Rated AC Output Current (Per Phase) [A]	76	91.2	113.9	121.6	152	190
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 (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	82.5	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]				<10		
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	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		