



P3 PRO

THREE-PHASE **HYBRID INVERTER**



20kW ...>> 30kW



HIGH VOLTAGE

Includes high-voltage batteries for maximum round-trip efficiency.



EASY INSTALLATION

Flexible configuration, plug and play set-up, built-in fuse protection.



IP65 RATED

Engineered to last with maximum flexibility. Suitable for outdoor installation.



REMOTE MONITORING

Monitor your system remotely via smartphone app or web portal.



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

REFINED – POWERFUL – FLEXIBLE

Harness the power of the sun day and night with the ground-breaking range of Hybrid inverter from Fox ESS. Full of advanced features and compatible with our very own range of high-voltage batteries, the hybrid range from Fox ESS.



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



TECHNICAL SPECIFICATIONS

MODEL	P3-Pro-20.0	P3-Pro-30.0
PV INPUT(ONLY FOR HYBRID)		
Max. Array Power [Wp]	40000	60000
Max. Recommended DC Power [W] ^[1]	10000/10000/10000	15000/15000/15000
Max. DC Voltage [V] ^[2]		1000
Nominal DC Operating Voltage [V]		750
Max. Input Current [A]		16+16/16+16/16+16
Max. Short Circuit Current [A]		20+20/20+20/20+20
MPPT Voltage Range [V]		150 ~ 850
MPPT Voltage Range [V] (full load)	230 ~ 850	340 ~ 850
Start-up Voltage [V]		160
No. of MPP Trackers		3
Strings per MPP Tracker		2/2/2
Max. Inverter Backfeed Current to the Array		0
BATTERY		
Battery Type		Lithium Battery
Battery Voltage [V]		150 ~ 800
Full AC Load Battery Voltage [V]	220 ~ 790	330 ~ 790
Max. Charge/ Discharge Current [A]		50+50
Number of Battery Input		2
Communication Interface		CAN
AC OUTPUT		
Nominal AC Power [VA]	20000	30000
Max. Apparent AC Power [VA]	22000	33000
Rated Grid Voltage (AC Voltage Range) [VAC]		400 / 230 ; 380 / 220 , 3L / N / PE
Rated Grid Frequency [Hz]		50 / 60 , ±5
Rated AC Current [A] (Per Phase)	30.3	45.5
Max. AC Current [A] (Per Phase)	33.3	50.0
Power Factor		I(Adjustable from 0.8 Leading to 0.8 Lagging)
Export Control		YES
THDI [%]		<3 @Rated Power
AC INPUT		
Max. AC Power [VA]	30000	35000
Rated Grid Voltage (AC Voltage Range) [V]		400 / 230 ; 380 / 220 , 3L / N / PE
Rated Grid Frequency [Hz]		50 / 60 , ±5
Max. AC Current [A] (Per Phase)	45.5	53.0
Power Factor		I(Adjustable from 0.8 Leading to 0.8 Lagging)
EPS OUTPUT		
Max. Apparent AC Power [VA]	20000	30000
Peak Apparent AC Power [VA] (60s)	24000	36000
Rated Output Voltage [V]		400 / 230 ; 380 / 220 , 3L / N / PE
Rated Grid Frequency [Hz]		50 / 60
EPS Max. Current [A] (Per Phase)	30.3	45.5
Power Factor		I(Adjustable from 0.8 Leading to 0.8 Lagging)
Parallel Operation		Yes @MaxIOPCS
Switch Time [ms]		<10
THDV [%]		<3 @Rated Power
EFFICIENCY		
MPPT Efficiency [%]	99.90	99.90
Max. Efficiency [%]	97.20	97.10
Max. Battery to AC Efficiency [%]	97.20	97.10
Max. PV to Battery Efficiency [%]	98.10	98.10
European Efficiency [%]	96.30	96.60
PROTECTION		
PV Reverse Polarity Protection		YES
Battery Reverse Protection		YES
Anti-Islanding Protection		YES
Output Short Protection		YES
Leakage Current Protection		YES
Insulation Resistor Detection		YES
Overvoltage Category		III (AC Side) , II (DC Side)
Reverse Connect Protection		YES
Overcurrent Protection / Overtemperature Protection		YES
AC/DC Surge Protection		Type II/Type II
AFCL Protection		YES
DC Switch		YES
String Monitoring Function		YES
GENERAL DATA		
Dimensions (W*H*D) [mm]		600*560*225
Dimension of Packing (W*H*D) [mm]		720*680*370
Net Weight [kg]		52.5
Gross Weight [kg]		57.5
Installation		Wall-mounted
Operating Temperature Range [°C]		-25 ~ +60 (Derating at 45)
Storage Temperature [°C]		-40 ~ +70
Storage/Operation Relative Humidity [%]		0 ~ 95 (No condensation)
Altitude [m]		<4000
Protective Class		I
Ingress Protection		IP65 (for Outdoor Use)
Standby Consumption [W]		200 for Hot Standby , 20 for Cold Standby
Standby Mode		YES
Cooling		Smart FAN Cooling
Noise Grade [dB]	<45	<55
Inverter Topology		Non-isolated
Communication Interface		Meter, WIFI, 4G(Optional), DRM, USB, BMS(CAN), RS485, Ethernet, SG ready
Button		Capacitive Touch Sensor *4
Buzzer		I, Inside (EPS&Earth Fault)
STANDARD COMPLIANCE MORE AVAILABLE UPON REQUEST		
Safety		EN 62109-1, EN 62109-2
EMC		IEC 61000-6-2, IEC 61000-6-3

*More technical characteristics are available on demand and customized.

[1] Per MPP max. PV input power 15kW.

[2] For 1000V system, Maximum operating voltage is 950V. PV input voltage greater than 955V, PV overvoltage error will be reported.