



P3-S

THREE-PHASE **HYBRID INVERTER**



10kW...>> 15kW



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	P3-10.0-SH	P3-15.0-SH
PV INPUT		
Max. Array Power [Wp]	20000	30000
Max. DC Input Power [W]	18000	22500
Max. DC Voltage [V]		1000 ^[1]
Nominal DC Operating Voltage [V]		620
Max. MPPT Input Current [A]		20/20/20
Max. MPPT Short Circuit Current [A]		25/25/25
Max. MPPT Input Power [W]		10000/10000/10000
Min. Operating PV Voltage [V]		90 ^[2]
MPPT Voltage Range [V]		120 ~ 950
Start-up Input Voltage [V]		140
No. of MPP Trackers		3
Strings per MPP Tracker		1+1+1
BATTERY		
Battery Type	Lithium-Ion battery (LFP)	
Battery Voltage [V]	100 ~ 800	
Min. Operating Battery Voltage [V]	100	
Min. Battery Voltage @Full AC Load [V]	210	310
Max. Charge/ Discharge Current [A]	50.0	
Communication Interface	CAN	
AC OUTPUT		
Nominal AC Power [W]	10000	15000
Max. Apparent AC Power [VA]	11000 ^[3]	16500
Rated Grid Voltage (AC Voltage Range) [V]	400/230; 380/220, 3L/N/PE	
Rated Grid Frequency [Hz]	50/60, ±5	
Rated AC Current [A] (Per Phase) ^[4]	15.2	22.7
Max. AC Current [A] (Per Phase) ^[4]	16.7	25.0
Power Factor	1(Adjustable from 0.8 leading to 0.8 lagging)	
THDI [%]	<3 @rated power	
AC INPUT		
Max. AC Power [VA]	12000	16000
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)	18.2	24.2
EPS OUTPUT		
Max. Apparent AC Power [VA]	10000	15000
Peak Apparent AC Power [VA] (60s)	12000	15000
Rated Output Voltage [V]	400/230; 380/220, 3L/N/PE	
Rated Grid Frequency [Hz]	50/60	
EPS Max. Current [A] (Per Phase)	14.5	21.7
Power Factor	1(Adjustable from 0.8 leading to 0.8 lagging)	
Switch Time [ms]	<10	
THDV [%]	<3 @Linear load	
EFFICIENCY		
MPPT Efficiency [%]	99.90	
Max. Efficiency [%]	97.90	
European Efficiency [%]	97.20	
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	
DC/AC Surge Protection	Type II(PV)/Type II(AC)	
AFCI Protection	YES	
DC Switch	YES	
GENERAL DATA		
Dimensions (W*H*D) [mm]	600*450*226	
Dimension of Packing (W*H*D) [mm]	665*545*390	
Net Weight [kg]	34	
Gross Weight [kg]	40	
Installation	Wall-mounted	
Operating Temperature Range [°C]	-25 ~ +60 (Derating at 45)	
Storage Temperature [°C]	-40 ~ +70	
Storage/Operation Relative Humidity [%]	0 ~ 100	
Altitude [m]	<4000 @Derating exceeding 2000	
Protective Class	I	
Ingress Protection	IP65 (For outdoor use)	
Standby Consumption [W]	20 ~ 25	
standby Mode	YES	
Cooling	Natural	FAN cooling
Noise Grade [dB]	<40	<55
Inverter Topology	Non-isolated	
Communication Interface	Ethernet, EMS(RS485), Meter, WiLAN(Wifi+LAN+Bluetooth), 4G(Optional), DRM, Ripple Control, USB, BMS(CAN), SG Ready	
Button	Capacitive touch sensor *4	
Buzzer	1, inside(EPS&Earth fault)	

[1] For 1000V system, PV Maximum operating voltage is 950V.

[2] The starting working voltage of the power supply is 90V.

[3] Belgian safety regulations require an apparent power of 10000W to be 10000VA.

[4] Per-phase output current can be increased via remote settings. After enabling the expansion function, the inverter can deliver up to 22.7A output current per phase.