



DATASHEET
Three-Phase Hybrid Inverter
H3-Pro-15.0 / 20.0 / 24.9 / 25.0 / 29.9 / 30.0

H3 PRO

Three-Phase Hybrid Inverter



Fox ESS storage solutions are available with advanced and intuitive app based remote control and monitoring functionality.



Easy Installation

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



High Voltage

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



IP65 Rated

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



Remote Monitoring

Monitor your system remotely via smartphone app or web portal.



REFINED – POWERFUL – FLEXIBLE

BATTERY EXPANSION EASY UPGRADE



Easily expand your system by adding extra batteries. There are three battery series you can choose from, which enables a storage capacity of up to 83.88 kWh. A max. of 10 storage inverters can be connected in parallel which allows you to enlarge the system scale based on different installation requirements.

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



TECHNICAL SPECIFICATIONS

HYBRID INVERTER MODEL:	H3-Pro-15.0	H3-Pro-20.0	H3-Pro-24.9	H3-Pro-25.0	H3-Pro-29.9	H3-Pro-30.0
PV INPUT(ONLY FOR HYBRID)						
Max.Recommended DC Power [W] ^[1]	7500/7500/7500	10000/10000/10000	12500/12500/12500	12500/12500/12500	15000/15000/15000	15000/15000/15000
Max.DC Voltage [V] ^[2]				1000		
Normalinal DC Operating Voltage [V]				750		
Max. Input Current [A]				32		
Max. Short Circuit Current [A]				40		
MPPT Voltage Range [V]				150 ~ 850		
MPPT Voltage Range [V] (full load)	170 ~ 850	230 ~ 850	280 ~ 850	280 ~ 850	340 ~ 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]	160 ~ 790	220 ~ 790	270 ~ 790	270 ~ 790	330 ~ 790	330 ~ 790
Max. Charge/ Discharge Current [A]				50+50		
Number of Battery Input				2		
Communication Interface				CAN		
AC OUTPUT						
Normalinal AC Power [VA]	15000	20000	24900	25000	29900	30000
Max. Apparent AC Power [VA]	16500	22000	24900	27500	29900	33000
Rated Grid Voltage (AC Voltage Range) [VAC]			400 / 230 ; 380 / 220 , 3L / N / PE			
Rated Grid Frequency [Hz]			50 / 60 , ±5			
Max. AC Current [A] (Per Phase)	25.0	33.3	37.7	41.7	45.4	50.0
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)			
Export Control				YES		
THDI [%]			<3 @Rated Power			
AC INPUT						
Max. AC Power [VA]	22500	30000	35000	35000	35000	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)	34.1	45.5	53.0	53.0	53.0	53.0
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)			
EPS OUTPUT						
Max. Apparent AC Power [VA]	15000	20000	25000	25000	30000	30000
Peak Apparent AC Power [VA] (60s)	18000	24000	30000	30000	36000	36000
Rated Output Voltage [V]			400 / 230 ; 380 / 220 , 3L / N / PE			
Rated Grid Frequency [Hz]			50 / 60			
EPS Max. Current [A] (Per Phase)	22.7	30.3	37.9	37.9	45.5	45.5
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)			
Parallel Operation				Yes @Max10PCS		
Switch Time [ms]				<20		
THDV [%]			<3 @Rated Power			
EFFICIENCY						
MPPT Efficiency [%]	99.90	99.90	99.90	99.90	99.90	99.90
Max. Efficiency [%]	97.80	97.80	97.80	97.80	97.80	97.80
Max. Battery to AC Efficiency [%]	97.60	97.60	97.60	97.60	97.60	97.60
Max. PV to Battery Efficiency [%]	98.10	98.10	98.10	98.10	98.10	98.10
Euro-Efficiency [%]	97.30	97.40	97.40	97.40	97.40	97.40
PROTECTION						
PV Reverse Polarity Protection				YES		
Battert Reverse Protection				YES		
Anti-Islanding Protection				YES		
Output Short Protection				YES		
Leakage Current Protection				YES		
Insulation Resistor Detection				YES		
Over Voltage Category			III (AC Side) , II (DC Side)			
Reverse Connect Protection				YES		
Over-current Protection / Over-temperature Protection				YES		
AC/DC Surge Protection				Type II/Type II		
AFCI Protection				Optional		
DC SWITCH				Optional		
String Monitoring Function				Optional		
GENERAL DATA						
Dimension (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		
Noise Emission(typical) [dB]	<45	<45	<60	<60	<60	<60
Storage/Operation Relative Humidity [%]			0 ~ 95 (Without Condensation)			
Altitude [m]				<4000		
Protective Class				I		
Ingress Protection				IP65 (for Outdoor Use)		
Standby Consumption [W]			200 for Hot Standby , 18 for Cold Standby			
Idle Mode				YES		
Cooling				Smart FAN Cooling		
Inverter Topology				Non-isolated		
Communication Interface			Meter, WIFI, 4G(optional), DRM, USB, BMS(CAN), RS485			
LCD Display				Backlight 16*4 Character		
Button				Capacitive Touch Sensor *4		
Buzzer				1, 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.