

# H3 Pro

## THREE-PHASE HYBRID INVERTER

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.



15kW ...>>> 30kW



Advanced System Monitoring with FoxCloud 2.0



### HIGH EFFICIENCY

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.
- AI assistant helps better understand and manage your system.



# TECHNICAL SPECIFICATIONS

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
<b>PV INPUT (ONLY FOR HYBRID)</b>						
Max. Array Power [Wp]	30000	40000	50000	50000	60000	60000
Max. Recommended DC Power [W] <sup>[1]</sup>	7500/7500/7500	10000/10000/10000	12500/12500/12500	12500/12500/12500	15000/15000/15000	15000/15000/15000
Max. DC Voltage [V] <sup>[2]</sup>			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)	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			
<b>BATTERY</b>						
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			
<b>AC OUTPUT</b>						
Nominal 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			
Rated AC Current [A] (Per Phase)	22.7	30.3	37.7	37.9	45.3	45.5
Max. AC Current [A] (Per Phase)	25.0	33.3	37.7	41.7	45.3	50.0
Power Factor			I (Adjustable from 0.8 Leading to 0.8 Lagging)			
Export Control			YES			
THDI [%]			<3 @Rated Power			
<b>AC INPUT</b>						
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			I (Adjustable from 0.8 Leading to 0.8 Lagging)			
<b>EPS OUTPUT</b>						
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			I (Adjustable from 0.8 Leading to 0.8 Lagging)			
Parallel Operation			Yes @Max10PCS			
Switch Time [ms]			<10			
THDV [%]			<3 @Rated Power			
<b>EFFICIENCY</b>						
MPPT Efficiency [%]	99.90	99.90	99.90	99.90	99.90	99.90
Max. Efficiency [%]	97.20	97.20	97.10	97.10	97.10	97.10
Max. Battery to AC Efficiency [%]	97.20	97.20	97.10	97.10	97.10	97.10
Max. PV to Battery Efficiency [%]	98.10	98.10	98.10	98.10	98.10	98.10
European Efficiency [%]	96.30	96.30	96.60	96.60	96.60	96.60
<b>PROTECTION</b>						
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			
AFCI Protection			Optional			
DC Switch			Optional			
String Monitoring Function			Optional			
<b>GENERAL DATA</b>						
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	<45	<55	<55	<55	<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)			
<b>STANDARD COMPLIANCE MORE AVAILABLE UPON REQUEST</b>						
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.