



# H3-Pro

THREE-PHASE **HYBRID INVERTER**



## 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**



up to  
**30kW**  
charge/  
discharge

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.

15kW ...>> 30kW



For more information about the Fox ESS range, visit  
[www.fox-ess.com](http://www.fox-ess.com)

# TECHNICAL SPECIFICATIONS

MODEL	H3-Pro-15.0	H3-Pro-20.0	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	60000	60000
Max. Recommended DC Power [W] <sup>[1]</sup>	7500/7500/7500	10000/10000/10000	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	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	330 ~ 790	330 ~ 790
Max. Charge/ Discharge Current [A] <sup>[3]</sup>			50+50		
Number of Battery Input			2		
Communication Interface			CAN		
<b>AC OUTPUT</b>					
Nominal AC Power [VA]	15000	20000	25000	29900	30000
Max. Apparent AC Power [VA]	16500	22000	27500	29900	33000
Rated Grid Voltage (AC Voltage Range) [VAC]			400 / 230 ; 380 / 220 , 3L / N / PE		
Rated Grid Frequency [Hz]			50 / 60		
Rated AC Current [A] (Per Phase)	22.7	30.0	37.9	45.3	45.5
Max. AC Current [A] (Per Phase)	25.0	33.3	41.7	45.3	50.0
Power Factor			1(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
Rated Grid Voltage (AC Voltage Range) [V]			400 / 230 ; 380 / 220 , 3L / N / PE		
Rated Grid Frequency [Hz]			50 / 60		
Max. AC Current [A] (Per Phase)	34.1	45.5	53.0	53.0	53.0
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)		
<b>EPS OUTPUT</b>					
Nominal AC Power [VA]	15000	20000	25000	30000	30000
Max. Apparent AC Power [VA]	15000	20000	25000	30000	30000
Peak Apparent AC Power [VA] (60s)	18000	24000	30000	36000	36000
Rated Output Voltage [V]			400 / 230 ; 380 / 220 , 3L / N / PE		
Rated Grid Frequency [Hz]			50 / 60		
Rated AC Current [A] (Per Phase)	22.7	30.3	37.9	45.5	45.5
Max. AC Current [A] (Per Phase)	22.7	30.3	37.9	45.5	45.5
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)		
Switch Time [ms]			<10		
THDV [%]			<3 @Rated Power		
<b>EFFICIENCY</b>					
MPPT Efficiency [%]	99.90	99.90	99.90	99.90	99.90
Max. Efficiency [%]	97.20	97.20	97.10	97.10	97.10
Max. Battery to AC Efficiency [%]	97.20	97.20	97.10	97.10	97.10
Max. PV to Battery Efficiency [%]	98.10	98.10	98.10	98.10	98.10
European Efficiency [%]	96.30	96.30	96.60	96.60	96.60
<b>PROTECTION</b>					
PV Reverse Polarity Protection			YES		
Battery Reverse Protection			YES		
Anti-Islanding Protection			Active Frequency Drift with Positive Feedback		
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			PEDS150H-HM63R-6F		
String Monitoring Function			YES		
<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
Inverter Topology			Non-isolated		
Communication Interface			Meter, WiFi, 4G(Optional), DRM, USB, BMS(CAN), RS485, Ethernet, SG ready		
Button			Capacitive Touch Sensor *4		
Buzzer			1, 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		
<b>MANUFACTURE</b>					
Country of Manufacturer			China		

\*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.

[3] Charge/discharge power limit is 25kW for single battery port.