



DATASHEET

Three-Phase Hybrid /AC Inverter

H3-Pro-10.0 / 12.0 / 15.0 / 20.0 / 22.0 / 24.9 / 25.0 / 29.9 / 30.0
AC3-Pro-10.0 / 12.0 / 15.0 / 20.0 / 22.0 / 24.9 / 25.0 / 29.9 / 30.0

H3 PRO SERIES

Three-Phase Hybrid /AC 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 67.20 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-10.0	H3-Pro-12.0	H3-Pro-15.0	H3-Pro-20.0	H3-Pro-22.0	H3-Pro-24.9	H3-Pro-25.0	H3-Pro-29.9	H3-Pro-30.0
AC INVERTER MODEL:	AC3-Pro-10.0	AC3-Pro-12.0	AC3-Pro-15.0	AC3-Pro-20.0	AC3-Pro-22.0	AC3-Pro-24.9	AC3-Pro-25.0	AC3-Pro-29.9	AC3-Pro-30.0
PV INPUT(ONLY FOR HYBRID)									
Max.Recommended DC Power [W] ^[1]	15000	18000	22500	30000	33000	37500	37500	45000	45000
Max.DC Voltage [V] ^[2]					1000				
Normal DC Operating Voltage [V]					750				
Max. Input Current [A]	16	16	32	32	32	32	32	32	32
Max. Short Circuit Current [A]	20	20	40	40	40	40	40	40	40
MPPT Voltage Range [V]					150 ~ 850				
MPPT Voltage Range [V] (full load)	230 ~ 850	270 ~ 850	170 ~ 850	230 ~ 850	250 ~ 850	280 ~ 850	280 ~ 850	340 ~ 850	340 ~ 850
Start-up Voltage [V]					160				
No. of MPP Trackers					3				
Strings Per MPP Tracker	1/1/1	1/1/1	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	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	260 ~ 790	160 ~ 790	220 ~ 790	240 ~ 790	270 ~ 790	270 ~ 790	330 ~ 790	330 ~ 790
Max. Charge/ Discharge Current [A]	50	50	50+50	50+50	50+50	50+50	50+50	50+50	50+50
Number of Battery Input	1	1	2	2	2	2	2	2	2
Communication Interface					CAN				
AC OUTPUT									
Normal AC Power [VA]	10000	12000	15000	20000	22000	24900	25000	29900	30000
Max. Apparent AC Power [VA]	11000	13200	16500	22000	24200	24900	27500	29900	30000
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)	16.7	20.0	25.0	33.3	36.7	37.7	41.7	45.4	45.5
Power Factor					1(Adjustable from 0.8 Leading to 0.8 Lagging)				
Export Control					YES				
AC Inrush Current [A]					15A@0.5ms				
Max. Output Fault Current[A]					150A@0.5ms				
Max. Output Overcurrent Protection[A]					77.1				
THDI [%]					<3 @Rated Power				
AC INPUT									
Max. AC Power [VA]	15000	18000	22500	30000	33000	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)	22.7	27.3	34.1	45.5	50.0	53.0	53.0	53.0	53.0
AC Inrush Current [A]					15 @0.5ms				
Power Factor					1(Adjustable from 0.8 Leading to 0.8 Lagging)				
EPS OUTPUT									
Max Apparent AC Power [VA]	10000	12000	15000	20000	22000	25000	25000	30000	30000
Peak Apparent AC Power [VA] (60s)	12000	14400	18000	24000	26400	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)	15.2	18.2	22.7	30.3	33.3	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	99.90	99.90	99.90
Max. Efficiency [%]	97.80	97.80	97.80	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	97.60	97.60	97.60
Max. PV to Battery Efficiency [%]	98.10	98.10	98.10	98.10	98.10	98.10	98.10	98.10	98.10
Euro-Efficiency [%]	97.30	97.30	97.30	97.40	97.40	97.40	97.40	97.40	97.40
PROTECTION									
PV Reverse Polarity Protection					YES				
Batter 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 III/Type II				
AFCI Protection					Optional				
DC SWITCH					Optional				
String Monitoring Function					Optional				
GENERAL DATA									
Dimension (WxHxD) [mm]					600*560*225				
Dimension of Packing (WxHxD) [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	<45	<45	<60	<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 , 15 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)				

*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.