



DATASHEET

Three-Phase Inverter

H3-Pro-15 / 17 / 20 / 23 / 25 / 29.9 / 30

H3-PRO SERIES

Three-Phase 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 just add extra batteries. There are three battery series you can choose. storage inverters can be connected in parallel to allow you enlarge the system scale, base on different installation requirement.

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



TECHNICAL SPECIFICATIONS

Model	H3-Pro-15	H3-Pro-17	H3-Pro-20	H3-Pro-23	H3-Pro-25	H3-Pro-29.9	H3-Pro-30
PV Input							
Max.Recommended DC Power [W]	22500	25500	30000	34500	37500	45000	45000
Max.DC Voltage [V]				1000			
Norminal 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] (fall load)	168-850	190-850	224-850	257-850	280-850	336-850	336-850
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]	323	366	430	247	269	323	323
Max. Charge/ Discharge Current [A]	50	50	50	50+50	50+50	50+50	50+50
Number of Battery Input	1	1	1	2	2	2	2
Communication Interface				CAN			
AC Output							
Normal AC Power [VA]	15000	17000	20000	23000	25000	29900	30000
Max. Apparent AC Power [VA]	16500	18700	22000	25300	27500	29900	30000
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)	25.0	28.3	33.3	38.3	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]				15@0.5ms			
Max. Output Fault Current [A]				150@0.5ms			
Max. Output Overcurrent Protection [A]				77.1			
THDI				<3%@Rated Power			
AC Input							
Max. AC Power [VA]	22500	25500	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	38.6	45.5	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]	15000	17000	20000	23000	25000	30000	30000
Peak Apparent AC Power [VA] (60s)	18000	20400	24000	27600	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	25.8	30.3	34.8	37.9	45.5	45.5
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)				
Parallel Operation				Yes @Max10PCS			
Switch Time				<20ms			
THDV				<3%@Rated Power			
Efficiency							
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%
Max. Efficiency	97.80%	97.80%	98.00%	98.00%	98.00%	98.00%	98.00%
Euro-Efficiency	97.20%	97.20%	97.30%	97.30%	97.30%	97.30%	97.30%
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				YES			
/Over-temperature Protection							
AC/DC Surge Protection				Type II			
AFCI Protection				Optional			
DC SWITCH				Optional			
String Monitoring Function				Optional			
General Data							
Dimension (W/H/D) [mm]				580*560*210			
Dimension of Packing (W/H/D) [mm]				TBD			
Net Weight [kg]				TBD			
Gross Weight [kg]				TBD			
Installation				Wall-mounted			
Operating Temperature Range [°C]				-25 ~ +60 (Derating at 45)			
Storage Temperature [°C]				-40 ~ +70			
Storage/Operation Relative Humidity [%]				0 ~ 95 (Without Condensation)			
Altitude [m]				<4000			
Protective Class				I			
Ingress Protection				IP65 (for Outdoor Use)			
Standby Consumption [W]				200W for Hot Standby , 15W for Cold Standby			
Idle Mode				YES			
Cooling				Smart FAN Cooling			
Inverter Topology				Non-isolated			
Communication Interface			Ethernet, Meter, WIFI, 4G(optional),	DRM, USB, BMS(CAN), RS485			
LCD Display				Backlight 16*4 Character			
Standard Warranty				10 Years			
Button				Capacitive Touch Sensor *4			
Buzzer				1 , Inside (EPS&Earth Fault)			