



DATASHEET
 Three-Phase Hybrid/AC Inverter
 H3-5.0-E / 6.0 / 8.0 / 10.0 / 12.0
 AC3-5.0-E / 6.0 / 8.0 / 10.0

3-PHASE

HYBRID/AC INVERTER

Harness the power of the sun day and night with the ground-breaking range of Hybrid & AC inverters from FOX.

Full of advanced features and compatible with our very own range of high-voltage batteries, the hybrid range from FOX. is a new class of Inverter.



FOX 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

Connects to 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.



up to
12kW
 charge/
 discharge

REFINED – POWERFUL – FLEXIBLE

BATTERY EXPANSION EASY UPGRADE



Expand your system easily by simply adding additional batteries. There are three battery size options, and four batteries can be installed in series, providing up to 10.4kWh of storage capacity.

For more about the FOX range, visit:

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

Model	H3-5.0-E AC3-5.0-E	H3-6.0-E AC3-6.0-E	H3-8.0-E AC3-8.0-E	H3-10.0-E AC3-10.0-E	H3-12.0-E
INPUT PV (For hybrid only)					
Max. recommended DC power [W]	7500	9000	10400	13000	15000
Max. DC voltage [V]			1000		
Nominal DC operating voltage [V]			720		
Max. input current (input A/input B) [A]	14A/14A	14A/14A	26A/14A	26A/14A	26A/14A
Max.short circuit current[A]	16A/16A	16A/16A	32A/16A	32A/16A	32A/16A
Start-Up voltage [V]			160V		
MPPT voltage range [V]			160-950		
MPPT voltage range (Full load) [Vdc]	210-800	250-800	240-800	280-800	320-800
No. of MPP trackers			2		
Strings per MPP tracker	1+1	1+1	2+1	2+1	2+1
OUTPUT AC					
Nominal AC power [VA]	5000	6000	8000	10000	12000
Max. apparent AC power [VA]	5500	6600	8800	11000	13200
Rated grid voltage (AC voltage range) [V]			400V/230VAC;380V/220VAC,3L/N/PE		
Rated grid Frequency [Hz]			50/60, ±5		
Max. AC current [A]	8.0	9.6	12.8	16.0	19.2
Displacement power factor			1(Adjustable from 0.8 leading to 0.8 lagging)		
Total harmonic distortion (THDi, rated power)			<3%@rated power		
Export Control			Yes		
AC inrush current [A]			15A@0.5ms		
Max. output fault current [A]			150A@0.5ms		
Max.output overcurrent protection [A]			45		
BATTERY					
Battery Type			Lithium battery		
Battery voltage[V]			180-600		
Full AC load Battery voltage[V]	205	250	330	410	480
Max. Charge/ discharge current[A]			26.0		
Communication interface			CAN/RS485		
INPUT AC					
Max. AC power [VA]	10000	12000	16000	16000	16000
Max. AC current [A]	15.2	18.2	24.2	24.2	24.2
Rated grid voltage (AC voltage range) [V]			400V/230VAC;380V/220VAC,3L/N/PE		
Rated grid frequency [Hz]			50/60, ±5Hz		
Power factor			1(Adjustable from 0.8 leading to 0.8 lagging)		
AC Inrush current [A]			15A@0.5ms		
EPS OUTPUT					
Nominal AC power [W]	5000	6000	8000	10000	12000
Max. AC power (60s) [VA]	10000	12000	14000	15000	15000
EPS rated voltage [V], Frequency [Hz]			400V/230VAC;380V/220VAC,3L/N/PE, 50/60		
EPS Max current [A](Per phase)	15.2	18.2	21.2	22.7	22.7
Power factor			1(Adjustable from 0.8 leading to 0.8 lagging)		
Switch time			<20ms		
THDV			<3%@rated power		
EFFICIENCY					
MPPT efficiency	99.90%	99.90%	99.90%	99.90%	99.90%
Max. efficiency	97.80%	97.80%	H3 98.00% / AC3 97.8%	H3 98.00% / AC3 97.8%	98.00%
Euro-efficiency	97.20%	97.20%	97.30%	97.30%	97.30%
PROTECTION					
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		
Over voltage category			III(AC side),II(DC side)		
Over-current protection / Over-temperature protection			YES		
AC/DC surge protection			Type II		
AFCl protection			optional		
DC SWITCH			optional		
String monitoring function			optional		
ENVIRONMENT LIMIT					
Dimension(W/H/D) [mm]			449*519*198		
Net weight [kg]			28		
Installation			wall-mounted		
Operating temperature range[°C]			-25to+60 (derating at 45 °C)		
Storage temperature			-40to+70		
Storage/Operation relative humidity			0%-95%(without condensation)		
Altitude[m]			<2000		
Protective class			I		
Ingress protection			IP65(for outdoor use)		
Standby consumption [W]			200W for hot standby,15W for cold standby		
Cooling		Neutral			FAN cooling
Inverter topology			Non-isolated		
Communication interface			Ethernet,Meter,WIFI,4G(optional),DRM,USB,BMS(CAN&RS485),RS485		
LCD display			Backlight 16*4 character		