



DATASHEET  
 Three-Phase Hybrid/AC Inverter  
 H3-5.0-E / 6.0 / 8.0 / 10.0  
 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  
**10kW**  
 charge/  
 discharge

REFINED – POWERFUL – FLEXIBLE

## BATTERY EXPANSION EASY UPGRADE



Expand your system easily by simply adding additional batteries. There are five battery size options, and Max. eight batteries can be installed in series, providing up to 20.8kWh of storage capacity.

For more about the FOX range, visit:

[WWW.FOX-ESS.COM](http://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
<b>INPUT PV</b>				
Max. recommended DC power [W]	A:3000/B:3000	A:4000/B:4000	A:6000/B:4000	A:8000/B:5000
Max. DC voltage [V]			1000	
Nominal DC operating voltage [V]			720	
Max. input current (input A/input B) [A]	13.5A/13.5A	13.5A/13.5A	26A/13.5A	26A/13.5A
Start-Up voltage [V]			180V	
PV work range [Vdc]			160-950	
MPPT voltage range (Full load) [Vdc]	210-800	250-800	240-800	280-800
No. of MPP trackers			2	
Strings per MPP tracker	A:1/B:1	A:1/B:1	A:2/B:1	A:2/B:1
<b>OUTPUT AC</b>				
Nominal AC power [VA]	5000	6000	8000	10000
Max. apparent AC power [VA]	5500	6600	8800	11000
Rated grid voltage (AC voltage range) [V]		400V/230VAC;380V/220VAC,3L/N/PE		
Rated grid Frequency [Hz]		50/60, ±5		
Nominal AC current [A]	7.2	8.7	11.6	14.5
Max. AC current [A]	8.3	10.0	13.3	15.9
Displacement power factor		1(Adjustable from 0.8 leading to 0.8 lagging)		
Total harmonic distortion (THDi, rated power)		<3%		
Unbalance output		Yes		
Parallel operation		Yes		
<b>INPUT AC</b>				
Nominal AC power [VA]	5000	6000	8000	10000
Nominal AC current [A]	7.2	8.7	11.6	14.5
Max. AC current [A]	8.3	10.0	13.3	16.7
Rated grid voltage (AC voltage range) [V]		400V/230VAC;380V/220VAC,3L/N/PE		
Rated grid Frequency [Hz]		50/60		
Power factor		1(Adjustable from 0.8 leading to 0.8 lagging)		
<b>EPS OUTPUT</b>				
Nominal AC power [W]	5000	6000	8000	10000
Max. AC power (60s) [VA]	16000	16000	16000	16000
EPS rated voltage [V], Frequency [Hz]		400V/230VAC;380V/220VAC,3L/N/PE, 50/60		
EPS rated current (@230VAC) [A]	7.2	8.7	11.6	14.5
Switch time [s]			<1.5	
Total harmonic distortion (THDv, linear Load)			<3%	
Parallel operation			10	
<b>EFFICIENCY</b>				
MPPT efficiency			99.90%	
Euro-efficiency			97.00%	
Max. efficiency			97.80%	
Battery Charge Efficiency			98.50%	
Battery Discharge Efficiency			97.00%	
<b>POWER CONSUMPTION</b>				
Internal consumption (night) [W]			15W standby mode	
Idle mode			YES	
<b>STANDARD</b>				
Safety		IEC62109-1-2 / IEC62040 / IEC62619		
EMC		EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3		
Grid rules		VDE-AR-N 4105:2018 / G98 / G99 / AS4777 / EN50549 / CEI 0-21 / VDE 2510		
<b>ENVIRONMENT LIMIT</b>				
Protection class			IP65	
Operating temperature range [°C]		-20..... +60°C (derating at +45°C)		
Humidity [%]		0~95 (non-condensing)		
Altitude [m]		<2000		
Storage temperature [°C]		-20..... +60°C		
Noise emission (typical) [dB]		<40		
Over voltage category		III (electric supply side), II (PV side)		
<b>GENERAL</b>				
Dimensions (HxWxD) [mm]		430*410*178		
Weight [kg]		23		
Cooling concept		Natural		
Topology		Transformerless		
Communication		Ethernet, Meter, WiFi/GPRS/LAN (optional), DRM, USB, BMS (CAN), RS485		