



DATASHEET (FOR BELGIUM)
 Single-Phase Hybrid/AC Inverter
 HI-3.0 / 3.7 / 4.6 / 5.0
 ACI-3.0 / 3.7 / 4.6 / 5.0



FOX

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.



REFINED – POWERFUL – FLEXIBLE

BATTERY EXPANSION EASY UPGRADE



Expand your system easily by simply adding additional batteries. There are six battery size options, and Max. seven batteries can be installed in series, providing up to 18.2kWh of storage capacity.

For more about the FOX range, visit:

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

Model	H1-3.0-E AC1-3.0-E	H1-3.7-E AC1-3.7-E	H1-4.6-E1 AC1-4.6-E1	H1-5.0-E AC1-5.0-E
INPUT PV (FOR HYBRID ONLY)				
Max.recommended DC power [W]	3900	4680	5980	6500
Max.DC voltage [V]			600	
Nominal DC operating voltage [V]			360	
Max. input current [A]			13.5 / 13.5	
Max. short circuit current [A]			15 / 15	
MPPT voltage range [V]			80-550	
No. of MPP trackers	2	2	2	2
Strings per MPP tracker	1	1	1	1
Start-up voltage [V]			75	
OUTPUT AC				
Nominal AC power [VA]	3000	3680	4600	5000
Max. apparent AC power [VA]	3300	4048	4600	5000
Rated grid voltage (AC voltage range) [V]		220 / 230 / 240 (180 to 270)		
Rated grid Frequency [Hz]		50 / 60 , ±5		
Nominal AC current [A]	13	16	20	21.7
Max. AC current [A]	14.4	17.6	22	23.9
Displacement power factor			0.8 leading to 0.8 lagging	
Total harmonic distortion (THDi, rated power)			<3%	
INPUT AC				
Max. AC power [VA]	7000	7680	9600	10000
Max. AC current [A]	31.8	34.9	43.7	45.5
Rated grid voltage (AC voltage range) [V]		220 / 230 / 240 (180 to 270)		
Rated grid Frequency [Hz]		50 / 60 , ±5		
Power Factor		0.8 leading to 0.8 lagging		
BATTERY				
Battery voltage range [V]		85-450		
Recommended battery voltage [Vdc]		300		
Max.charge/discharge current [A]		40		
Communication interfaces		CAN / RS485		
Reverse connect protection		YES		
EPS OUTPUT (WITH BATTERY)				
EPS MAX power [VA]	5000	5000	6000	6000
EPS rated voltage [V], Frequency [Hz]		230VAC , 50 / 60		
EPS rated current [A]	21.7	21.7	26.1	26.1
EPS peak power [W]	6000, 60s			7200, 60s
Total harmonic distortion (THDv, linear Load)			< 2%	
Switch time [ms]			< 20	
EFFICIENCY				
MPPT efficiency	99.90%	99.90%	99.90%	99.90%
Euro-efficiency	97.00%	97.00%	97.00%	97.00%
Max. efficiency	97.80%	97.80%	97.80%	97.80%
Max. efficiency (PV to BAT) @full load	98.50%	98.50%	98.50%	98.50%
Max. efficiency (BAT to AC) @full load	97.00%	97.00%	97.00%	97.00%
POWER CONSUMPTION				
Standby consumption [W] (Idle)			<3	
STANDARD				
Safety		IEC62109-1 / -2 / IEC62040		
EMC		EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3		
Certification	C10/11 / G98 / G99 / AS4777.2-2015 / EN50549-1 / CEI 0-21 / VDE-AR-N4105 / NRS097-2-1 and so on			
ENVIRONMENT LIMIT				
Ingress protection		IP65		
Operating temperature range [°C]		-25..... +60°C (derating at +45°C)		
Humidity [%]		0~100 (non-condensing)		
Altitude [m]		<2000		
Storage temperature [°C]		-40..... +70°C		
Noise emission (typical) [dB]		<40		
Over voltage category		III (AC), II (DC)		
GENERAL DATA				
Dimensions (WxHxD) [mm]		430*410*178		
Weight [kg]		23		
Cooling concept		Natural		
Topology		Transformerless		
Communication		Ethernet, Meter, WIFI / GPRS / LAN (optional), DRM, USB, CT		
LCD display		Backlight 16*4 character		