



DATASHEET  
 Single-Phase Hybrid/AC Inverter  
 HI-3.0-E / 3.7-E / 4.6-E1 / 5.0-E1  
 ACI-3.0-E / 3.7-E / 4.6-E1 / 5.0-E1



# 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. It 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  
**5kW**  
charge/  
discharge

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](http://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 AC1-4.6E1	H1-5.0-E1 AC1-5.0E1
<b>INPUT PV (ONLY FOR HYBRID)</b>				
Max. Input Power [W]	3900	4680	5980	6500
Max. Input Voltage [V]			600	
Start-up Input Voltage [V]			75	
Rated Input Voltage [V]			360	
MPPT Operating Voltage Range [V]			80-550	
Max. Input Current [A]			13.5/13.5	
Max. Short-circuit Current [A]			15/15	
No. of Independent MPP Trackers	2	2	2	2
No. of Strings per MPP Tracker	1	1	1	1
<b>BATTERY CONNECTION</b>				
Battery Type			Lithium-Ion	
Battery Voltage [V]			85-450	
Max. Charge/Discharge Current [A]			40	
Communication Interface			CAN(Communicate With Inverter), RS485 (Upgrade BMS)	
<b>AC INPUT AND OUTPUT (GRID)</b>				
Max. AC Input Power [VA]	7000	7680	9600	10000
Max. AC Input Current (per phase) [A]	31.8	34.9	43.7	45.5
Rated Output Power [W]	3000	3680	4600	5000
Max. Output Apparent Power [VA]	3300	4048	4600	5000
Rated Output Current (per phase) [A]	13.0	16.0	20.0	21.7
Max. Output Current [A]	14.4	17.6	22.0	23.9
Rated Grid Voltage [V]			220/230/240	
Rated Grid Frequency [Hz]			50/60	
Power Factor			1 default( Adjustable from 0.8 leading to 0.8 lagging )	
THDi			<3% @rated power	
<b>EPS OUTPUT (WITH BATTERY)</b>				
Max. Output Apparent Power [VA]	5000	5000	6000	6000
Peak Output Apparent Power (60s) [VA]	6000	6000	7200	7200
Max. Current (per phase) [A]	21.7	21.7	26.1	26.1
Rated Output Voltage [V]			220/230/240	
Rated Output Frequency [Hz]			50/60	
Power Factor			1 ( Adjustable from 0.8 leading to 0.8 lagging )	
THDv ( linear Load)			<2% @rated power	
Switch time [ms]			<20	
<b>EFFICIENCY</b>				
Euro Efficiency	97.00%	97.00%	97.00%	97.00%
Max. Efficiency	97.80%	97.80%	97.80%	97.80%
Max. Battery Charge Efficiency (PV to BAT) (@full load)	98.50%	98.50%	98.50%	98.50%
Max. Battery Discharge Efficiency (BAT to AC) (@full load)	97.00%	97.00%	97.00%	97.00%
<b>PROTECTION</b>				
Insulation Monitoring			YES	
Residual Current Monitoring			YES	
DC Reverse Polarity Protection			YES	
Anti-islanding Protection			YES	
AC Short-circuit Protection			YES	
AC Overcurrent/Overvoltage Protection			YES	
DC Switch			YES	
SPD			DC: Type II, /AC: Type III	
<b>GENERAL DATA</b>				
Dimensions (WxHxD) [mm]			430*410*178	
Weight [kg]			23	
Installation			Wall-Mounted	
Topology			Transformerless	
Cooling Method			Natural	
Noise Emission [dB]			35	
Max. Operating Altitude [m]			2000	
Operating Temperature Range [°C]			-25 to 60	
Humidity ( No Condensation )			0% to 100%	
Protection Degree			IP65	
Standby consumption[W]			<10	
Monitoring Module			WiFi, 4G, GPRS (Optional)	
Communication			2*RS485, DRM, Ripple Control, USB	
Display			LCD, App, Website	
<b>STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)</b>				
Safety			EN 62109-1, EN 62109-2	
EMC			EN 61000-6-2, EN 61000-6-3	
Grid Regulation			EN50549-1, C10 / 11, VDE-AR-N 4105, G98, G99, CEI 0-21, NRS 097-2-1, AS / NZS 4777.2	

\* More technical characteristics are available on demand and customized.