



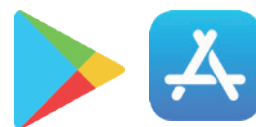
DATASHEET
Single-Phase Hybrid/AC Inverter
H1-3.0-E / 3.7-E / 4.6-E1 / 5.0-E1
AC1-3.0-E / 3.7-E / 4.6-E1 / 5.0-E1

H1&AC1

HYBRID/AC INVERTER

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

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

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 three battery size options, and Max. seven batteries can be installed in series, providing up to 18.20kWh of storage capacity.

For more about the Fox ESS 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 AC1-4.6E1	H1-5.0-E1 AC1-5.0E1
INPUT PV (ONLY FOR HYBRID)				
Max. Input Power [W]	3900 A:2000 B:2000	4680 A:2400 B:2400	5980 A:3000 B:3000	6500 A:3300 B:3300
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
BATTERY CONNECTION				
Battery Type	Lithium-Ion			
Battery Voltage [V]	85 ~ 450			
Max. Charge/Discharge Current [A]	40			
Communication Interface	CAN(Communicate With Inverter), RS485 (Upgrade BMS)			
AC INPUT AND OUTPUT (GRID)				
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			
EPS OUTPUT (WITH BATTERY)				
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			
EFFICIENCY				
Euro Efficiency [%]	97.00			
Max. Efficiency [%]	97.80			
Max. Battery Charge Efficiency (PV to BAT) (@full load) [%]	98.50			
Max. Battery Discharge Efficiency (BAT to AC) (@full load) [%]	97.00			
PROTECTION				
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			
GENERAL DATA				
Dimensions (W*H*D) [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 ~ 60			
Humidity (No Condensation) [%]	0 ~100			
Ingress Protection	IP65			
Standby consumption [W]	<10			
Monitoring Module	WiFi, 4G, GPRS (Optional)			
Communication	2*RS485, DRM, Ripple Control, USB			
Display	LCD, App, Website			
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)				
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.