

DATASHEET

Single-Phase Hybrid/AC Inverter

H1-3.0-E / 3.7 / 4.6 / 5.0 / 6.0 AC1-3.0-E / 3.7 / 4.6 / 5.0 / 6.0



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

Includes high-voltage batteries for maximum round-trip effciency.



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 33.24kWh 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-E AC1-4.6-E	H1-5.0-E AC1-5.0-E	H1-6.0-E AC1-6.0-E
NPUT PV (ONLY FOR HYBRID)					
Max. Input Power [W]	3900	4680	5980	6500	7800
	A:2000 B:2000	A:2400 B:2400	A:3000 B:3000	A:3300 B:3300	A:3900 B:3900
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 2		
No. of Independent MPP Trackers					
No. of Strings per MPP Tracker BATTERY CONNECTION			1		
			Lithium Battery (LFP)		
Battery Type Battery Voltage [V]			85 ~ 450		
Max. Charge/Discharge Current [A]			40		
Communication Interface		CAN(Commun	icate With Inverter), RS485	(Ungrade BMS)	
AC INPUT AND OUTPUT (GRID)		c/ii/(commun	reace with invertery, no-to-	(Opgrade bivis)	
Max. AC Input Power [VA]	7000	7680	9600	10000	12000
Max. AC Input Current (per phase) [A]	31.8	34.9	43.6	45.5	54.5
Rated Output Power [W]	3000	3680	4600	5000	6000
Max. Output Apparent Power [VA]	3300	4048	5060	5500	6600
Rated Output Current (per phase) [A]	13.0	16.0	20.0	21.7	26.1
Max. Output Current [A]	14.3	17.6	22.0	23.9	28.7
Rated Grid Voltage [V]			220/230/240		
Rated Grid Frequency [Hz]			50/60		
Power Factor		1 (Adjust	able from 0.8 leading to 0.	8 lagging)	
ГНDi [%]		, ,	<3 @rated power	55 57	
EPS OUTPUT (WITH BATTERY)					
Max. Output Apparent Power [VA]	5000	5000	6000	6000	6000
Peak Output Apparent Power (60s) [VA]	6000	6000	7200	7200	7200
Max. Current (per phase) [A]	21.7	21.7	26.1	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) [9	6]		98.50		
Max. Battery Discharge Efficiency (BAT to AC) (@full load) [%]		97.00		
PROTECTION					
nsulation 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		
nstallation			Wall-Mounted		
Гороlоду			Transformerless		
			Natural		
Cooling Method			35		
			2000		
Noise Emission [dB]					
Noise Emission [dB] Max. Operating Altitude [m]			-25 ~ 60		
Noise Emission [dB] Max. Operating Altitude [m] Operating Temperature Range [°C]			-25 ~ 60 0 ~ 100		
Noise Emission [dB] Max. Operating Altitude [m] Operating Temperature Range [°C] Humidity (No Condensation) [%]					
Cooling Method Noise Emission [dB] Max. Operating Altitude [m] Deerating Temperature Range [°C] Humidity (No Condensation) [%] ngress protection Standby consumption[W]			0 ~ 100 IP65 <10		
Noise Emission [dB] Max. Operating Altitude [m] Operating Temperature Range [°C] Humidity (No Condensation) [%] Ingress protection Standby consumption[W] Monitoring Module			0 ~ 100 IP65 < 10 IFI, LAN, 4G, GPRS (Option		
Noise Emission [dB] Max. Operating Altitude [m] Operating Temperature Range [°C] Humidity (No Condensation) [%] Ingress protection Standby consumption[W] Monitoring Module Communication			0 ~ 100 IP65 < 10 IFI, LAN, 4G, GPRS (Option 6485, DRM, Ripple Control,		
Noise Emission [dB] Max. Operating Altitude [m] Operating Temperature Range [°C] Humidity (No Condensation) [%] Ingress protection Standby consumption[W] Monitoring Module Communication			0 ~ 100 IP65 < 10 IFI, LAN, 4G, GPRS (Option		
Noise Emission [dB] Max. Operating Altitude [m] Operating Temperature Range [°C] Humidity (No Condensation) [%] Ingress protection Standby consumption[W] Monitoring Module Communication	QUEST)		0 ~ 100 IP65 < 10 IFI, LAN, 4G, GPRS (Option 6485, DRM, Ripple Control,		
Noise Emission [dB] Max. Operating Altitude [m] Operating Temperature Range [°C] Humidity (No Condensation) [%] Ingress protection Itandby consumption[W] Monitoring Module Communication	QUEST)	2*R	0 ~ 100 IP65 < 10 IFI, LAN, 4G, GPRS (Option 6485, DRM, Ripple Control,	USB	

 $[\]ensuremath{^{*}}$ More technical characteristics are avaliable on demand and customized.