D A T A S H E E T 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







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.



Flexible configuration, plug and play set-up, built-in fuse protection.



High Voltage

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



Engineered to last with maximum flexibility. Suitable for outdoor installation.



**Remote Monitoring** 

Monitor your system remotely via smartphone app or web portal.



## 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	Н1-3.7-Е АС1-3.7-Е	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)						
Aax. 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			
/lax. Input Current [A]			13.5/13.5			
Max. Short-circuit Current [A]			15/15			
Io. of Independent MPP Trackers			2			
No. of Strings per MPP Tracker			1			
BATTERY CONNECTION						
attery Type			Lithium Battery (LFP)			
attery Voltage [V]			85 ~ 450			
Nax. Charge/Discharge Current [A]			40			
ommunication Interface		CAN(Commun	icate With Inverter), RS48	5 (Upgrade BMS)		
C INPUT AND OUTPUT (GRID)						
1ax. AC Input Power [VA]	7000	7680	9600	10000	12000	
lax. AC Input Current (per phase) [A]	31.8	34.9	43.6	45.5	54.5	
ated Output Power [W]	3000	3680	4600	5000	6000	
lax. Output Apparent Power [VA]	3300	4048	5060	5500	6600	
ated Output Current (per phase) [A]	13.0	16.0	20.0	21.7	26.1	
lax. Output Current [A]	14.3	17.6	22.0	23.9	28.7	
ated Grid Voltage [V]			220/230/240			
ated Grid Frequency [Hz]	50/60					
ower Factor	1 ( Adjustable from 0.8 leading to 0.8 lagging )					
HDi [%]		<3 @rated power				
PS OUTPUT (WITH BATTERY)						
lax. Output Apparent Power [VA]	5000	5000	6000	6000	6000	
eak Output Apparent Power (60s) [VA]	6000	6000	7200	7200	7200	
1ax. Current (per phase) [A]	21.7	21.7	26.1	26.1	26.1	
ated Output Voltage [V]			220/230/240			
ated Output Frequency [Hz]	50/60					
ower Factor	1 ( Adjustable from 0.8 leading to 0.8 lagging )					
HDv ( linear Load) [%]			<2 @rated power			
witch Time [ms]			<20			
FFICIENCY						
uro Efficiency [%]			97.00			
1ax. Efficiency [%]			97.80			
Nax. Battery Charge Efficiency (PV to BAT) (@full lo			98.50			
Nax. Battery Discharge Efficiency (BAT to AC) (@ful	l load) [%]		97.00			
ROTECTION						
sulation Monitoring			YES			
esidual Current Monitoring			YES			
C Reverse Polarity Protection			YES			
nti-islanding Protection			YES			
C Short-circuit Protection			YES			
C Overcurrent/Overvoltage Protection			YES			
C Switch			YES			
20			DC: Type II, /AC: Type III			
ENERAL DATA						
imensions (W*H*D) [mm]			430*410*178			
/eight [kg]			23			
stallation	Wall-Mounted					
opology	Transformerless					
poling Method			Natural			
oise Emission [dB]			35			
lax. Operating Altitude [m]			2000			
perating Temperature Range [°C ]	-25 ~ 60					
umidity ( No Condensation ) [%]			0~100			
gress protection			IP65			
tandby consumption[W]			<10			
Ionitoring Module	WiFi, LAN, 4G, GPRS (Optional)					
ommunication		2*R	S485, DRM, Ripple Control	, USB		
isplay			LCD, App, Website			
TANDARD COMPLIANCE (MORE AVAILABLE UPO	N REQUEST)					
afety			EN 62109-1, EN 62109-2			
ИС		E	N 61000-6-2, EN 61000-6-3	3		
irid Regulation	ENIE	0549-1 C10 / 11 VDE-AR-N	4105, G98, G99, CEI 0-21	NRS 097-2-1 AS / N7S 477	77 7	

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