



DATASHEET  
Split-Phase Hybrid/AC  
H1&AC1-3.8-US / 5.7 / 7.6 / 9.6 / 11.4

# US SERIES



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.



## HIGH VOLTAGE

Compatible with high-voltage batteries for maximum round-trip efficiency.



## TYPE 4X

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 6 battery size options, and 7 batteries can be installed in series, providing up to 27.8 kWh of storage capacity.

For more about the Fox ESS range, visit:

[us.fox-ess.com](https://us.fox-ess.com)



TECHNICAL SPECIFICATIONS

Inverter Model:	AC1-3.8-US		AC1-5.7-US		AC1-7.6-US		AC1-9.6-US		AC1-11.4-US		
Hybrid Inverter Model:	H1-3.8-US		H1-5.7-US		H1-7.6-US		H1-9.6-US		H1-11.4-US		
PV INPUT (ONLY FOR HYBRID)											
Max. Solar STC Power [W]	7600		11400		15200		19200		22800		
Max. Input Voltage [V]					600						
Start-up Input Voltage [V]					100						
Rated Input Voltage [V]					380						
MPPT Operating Voltage Range [V]					80~550						
MPPT Operating Voltage Range [V] (Full Load)	204~500		204~500		271~500		257~500		305~500		
Max. Input Current [A]			28 / 14				28 / 14 / 14				
Max. Short-circuit Current [A]			44 / 22				44 / 22 / 22				
No. of Independent MPP Trackers			2				3				
No. of Strings per MPP Tracker			2 / 1				2 / 1 / 1				
BATTERY CONNECTION											
Battery Type	Lithium Battery (LFP)										
Battery Voltage Range [V]	85~460										
Rated Battery Voltage [V]	360										
Max. Continuous Charge / Discharge Current [A]	50										
Max. Continuous Charge / Discharge Power [W]	(for H1)	5700/4180	8550/6270		11400/8360		14400/10560		17100/12540		
	(for AC1)	3800/4180	5700/6270		7600/8360		9600/10560		11400/12540		
Max. Discharge Current (60s) [A]	60										
BMS Communication Interface	CAN 2.0										
AC INPUT AND OUTPUT (GRID)											
Max. AC Input Power [VA]	3800		5700		7600		9600		11400		
Max. AC Input Current [A]	16		24		32		40		48		
Input Voltage Range [V]					211~264						
Input Frequency Range [Hz]					57~63						
Rated Output Power [W]	3800		5700		7600		9600		11400		
Max. Output Apparent Power [VA]	3800		5700		7600		9600		11400		
Rated Output Current [A]	15.8		23.8		31.7		40.0		47.5		
Max. Output Current [A]	15.8		23.8		31.7		40.0		47.5		
Rated Grid Voltage [V]	240 (211~264)										
Rated Grid Frequency [Hz]	57~63										
Power Factor	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)										
THDi [%]	<3 @rated power										
AC OUTPUT (BACKUP)											
Rated Output Power [W]	3800		5700		7600		9600		11400		
Rated output power @different batteries [W]	3800 @H2 Battery		5700 @H2 Battery		5760 @H2 Battery		5760 @H2 Battery		5760 @H2 Battery		
	3800 @H3 Battery		5700 @H3 Battery		7600 @H3 Battery		8640 @H3 Battery		8640 @H3 Battery		
	3800 @H4 Battery		5700 @H4 Battery		7600 @H4 Battery		9600 @H4 Battery		11400 @H4 Battery		
	3800 @H5 Battery		5700 @H5 Battery		7600 @H5 Battery		9600 @H5 Battery		11400 @H5 Battery		
	3800 @H6 Battery		5700 @H6 Battery		7600 @H6 Battery		9600 @H6 Battery		11400 @H6 Battery		
	3800 @H7 Battery		5700 @H7 Battery		7600 @H7 Battery		9600 @H7 Battery		11400 @H7 Battery		
Max. Output Apparent Power [VA]	4180		6270		8360		10560		12540		
Peak Output Apparent Power (10min) [VA]	4560		6840		9120		11520		13680		
Peak Output Apparent Power (60s) [VA]	5130		7695		10260		12960		15390		
Max. Continuous Output Current [A]	17.4		26.1		34.8		44.0		52.3		
LRA [A]	110										
Rated Output Voltage [V]	120 / 240										
Rated Output Frequency [Hz]	60										
Load Start Capacity [A] LRA	48 @H2 Battery		48 @H2 Battery		48 @H2 Battery		48 @H2 Battery		48 @H2 Battery		
	72 @H3 Battery		72 @H3 Battery		72 @H3 Battery		72 @H3 Battery		72 @H3 Battery		
	96 @H4 Battery		96 @H4 Battery		96 @H4 Battery		96 @H4 Battery		96 @H4 Battery		
	110 @H5 Battery		110 @H5 Battery		110 @H5 Battery		110 @H5 Battery		110 @H5 Battery		
	110 @H6 Battery		110 @H6 Battery		110 @H6 Battery		110 @H6 Battery		110 @H6 Battery		
	110 @H7 Battery		110 @H7 Battery		110 @H7 Battery		110 @H7 Battery		110 @H7 Battery		
THDv ( Linear Load) [%]	<3 @rated power										
Imbalance for Split-Phase Loads [%]	100										
EFFICIENCY											
CEC Efficiency [%]	97.00										
Max. Efficiency [%]	97.60										
Max. Battery Discharge Efficiency (BAT to AC) (@full load, 340Vdc) [%]	97.40										
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 II										
AFCI	YES										
GENERAL DATA											
Dimensions (W*H*D) [inch]	18.2*25.9*9.2 (462*658*234.5mm)										
Weight [lbs]	83.8 (38kg)										
Installation	Wall-mounted										
Topology	Transformerless										
Cooling Method	Natural convection										
Noise Emission [dB]	<35										
Max. Operating Altitude [ft]	9843 (3000 m), derating above 6560 (2000 m)										
Operating Temperature Range [°F]	-13 ~ +140 (-25°C ~ +60°C), derating above 104 (40°C)										
Humidity [%]	0 ~ 100 (No Condensation)										
Protection Degree	Type 4X										
Standby consumption [W]	<25										
Maximum number of Inverters (Parallel)	4										
Monitoring Module	WiFi, LAN										
Communication	CAN2.0, RS485, Meter, CT, ISO alarm, SUNSPEC										
Display	LED, App, Website										
Warranty [Year]	12.5										
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)											
Safety	UL1741 SA, UL 1741 SB, UL1741 CRD, HECO SRD-V2.0, CSA C22.2 No.107.1-16, UL1998, UL16998, Rule 21										
EMC	FCC part15 CLASS B										
Grid Regulation	IEEE1547-2018, IEEE1547a-2020, IEEE1547.1-2020										