



DATASHEET
Split-Phase Hybrid
HI&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 six battery size options, and seven batteries can be installed in series, providing up to 27.8 kWh of storage capacity.

For more about the Fox ESS range, visit:

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

Model	AC1-3.8-US H1-3.8-US		AC1-5.7-US H1-5.7-US		AC1-7.6-US H1-7.6-US		AC1-9.6-US H1-9.6-US		AC1-11.4-US H1-11.4-US	
PV INPUT (ONLY FOR HYBRID)										
Max. Input Power [W]	5700		8550		11400		14400		17100	
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	
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	
Rated Output Voltage [V]					120 / 240					
Rated Output Frequency [Hz]					60					
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 (HxWxD) [inch]					25.2*17.7*9.6 inch (640*450*244mm)					
Weight [lbs]					83.3 (38kg)					
Installation					Wall-mounted					
Topology					Transformerless					
Cooling Method					Natural convection					
Noise Emission [dB]					<35					
Max. Operating Altitude					9843 ft (3000 m), derating above 6560 ft (2000 m)					
Operating Temperature Range					-13°F~-140°F (-25°C ~ +60°C), derating above 104°F (40°C)					
Humidity [%]					0 ~ 100 (No Condensation)					
Protection Degree					Type 4X					
Standby consumption [W]					<25					
Monitoring Module					WiFi+LAN, 4G (Optional)					
Communication					CAN2.0, RS485, SUNSPEC					
Display					LED, App, Website					
Warranty					10 Years					
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)										
Safety					UL1741, UL1741 SA, UL1699B, CSA C22.2, UL62109-1, UL1998					
EMC					FCC Part 15 Class B					
Grid Regulation					IEEE1547, IEEE1547.1, Rule 21					