

# 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](http://us.fox-ess.com)



# TECHNICAL SPECIFICATIONS

AC 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
<b>PV INPUT (ONLY FOR HYBRID)</b>					
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	
<b>BATTERY CONNECTION</b>					
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 (for AC1) 3800/4180	8550/6270	11400/8360	14400/10560	17100/12540
Max. Discharge Current (60s) [A]	60				
BMS Communication Interface	CAN 2.0				
<b>AC INPUT AND OUTPUT (GRID)</b>					
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				
<b>AC OUTPUT (BACKUP)</b>					
Rated Output Power [W]	3800	5700	7600	9600	11400
Rated output power @different batteries [W]	3800 @H2 Battery 3800 @H3 Battery 3800 @H4 Battery 3800 @H5 Battery 3800 @H6 Battery 3800 @H7 Battery	5700 @H2 Battery 5700 @H3 Battery 5700 @H4 Battery 5700 @H5 Battery 5700 @H6 Battery 5700 @H7 Battery	7600 @H2 Battery 7600 @H3 Battery 7600 @H4 Battery 7600 @H5 Battery 7600 @H6 Battery 7600 @H7 Battery	9600 @H2 Battery 9600 @H3 Battery 9600 @H4 Battery 9600 @H5 Battery 9600 @H6 Battery 9600 @H7 Battery	11400 @H2 Battery 11400 @H3 Battery 11400 @H4 Battery 11400 @H5 Battery 11400 @H6 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 72 @H3 Battery 96 @H4 Battery 110 @H5 Battery 110 @H6 Battery 110 @H7 Battery	48 @H2 Battery 72 @H3 Battery 96 @H4 Battery 110 @H5 Battery 110 @H6 Battery 110 @H7 Battery	48 @H2 Battery 72 @H3 Battery 96 @H4 Battery 110 @H5 Battery 110 @H6 Battery 110 @H7 Battery	48 @H2 Battery 72 @H3 Battery 96 @H4 Battery 110 @H5 Battery 110 @H6 Battery 110 @H7 Battery	48 @H2 Battery 72 @H3 Battery 96 @H4 Battery 110 @H5 Battery 110 @H6 Battery 110 @H7 Battery
THDv (Linear Load) [%]	<3 @rated power				
Imbalance for Split-Phase Loads [%]	100				
<b>EFFICIENCY</b>					
CEC Efficiency [%]	97.00				
Max. Efficiency [%]	97.60				
Max. Battery Discharge Efficiency (BAT to AC) (@full load, 340Vdc) [%]	97.40				
<b>PROTECTION</b>					
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				
<b>GENERAL DATA</b>					
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				
<b>STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)</b>					
Safety	UL1741 SA, UL 1741 SB, UL1741 CRD, HECO SRD-V2.0, CSA C22.2 No.107.1-16, UL1998, UL1699B, Rule 21				
EMC	FCC part15 CLASS B				
Grid Regulation	IEEE1547-2018, IEEE1547a-2020, IEEE1547.1-2020				