



# US SERIES

SPLIT-PHASE HYBRID/AC



## HIGH VOLTAGE

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



## EASY INSTALLATION

Flexible configuration, plug and play set-up.



## TYPE 4X

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



## REMOTE MONITORING

Monitor your system remotely via smartphone app or web portal.

The split-phase storage inverter is specifically designed for the US market. With a wide range of power output capacities and support for up to 4-unit parallel operation, the Fox ESS US Series offers versatile application options for all customers.

3.8kW ...>> 11.4kW



For more information about the Fox ESS range, visit:  
[us.fox-ess.com](https://us.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. 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	28/14	28/14/14	28/14/14
Max. Short-circuit Current [A]		44/22	44/22	44/22	44/22/22	44/22/22
No. of MPP Trackers		2	2	2	3	3
Strings per MPP Tracker		2/1	2/1	2/1	2/1/1	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]				11400		
Rated output power @different batteries [W]				5760 @H2 Battery 8640 @H3 Battery 11400 @H4 Battery 11400 @H5 Battery 11400 @H6 Battery (Only for non US mainland) 11400 @H7 Battery (Only for non US mainland)		
Max. Output Apparent Power [VA]				12540		
Peak Output Apparent Power (10min) [VA]				13680		
Peak Output Apparent Power (60s) [VA]				15390		
Max. Continuous Output Current [A]				52.3		
LRA [A]				160		
Rated Output Voltage [V]				120 / 240		
Rated Output Frequency [Hz]				60		
Load Start Capacity [A] LRA				50 @H2 Battery 75 @H3 Battery 110 @H4 Battery 160 @H5 Battery 160 @H6 Battery (Only for non US mainland) 160 @H7 Battery (Only for non US mainland)		
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 / mm]				18.2*25.9*9.2 / 462*658*234.5		
Weight [lbs / kg]				83.8 / 38		
Installation				Wall-mounted		
Topology				Transformerless		
Cooling Method				Natural convection		
Noise Emission [dB]				<35		
Max. Operating Altitude [ft / m]				9843 / 3000 (Derating above 6560 / 2000)		
Operating Temperature [°F / °C]				-13 ~ +140 / -25 ~ +60 (Derating above 104 / 40)		
Humidity [%]				0 ~ 100 (No Condensation)		
Protection Degree				Type 4X		
Standby consumption [W]				<25		
Max. 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, UL1699B, Rule 21				
EMC		FCC part15 CLASS B				
Grid Regulation		IEEE1547-2018, IEEE1547a-2020, IEEE1547.1-2020				