



# 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 design of the revolutionary single phase storage inverter is tailored to meet the US market. With wide range of power output capacity and up to 4-unit parallel operation, this Fox ESS US Series offers a variety of applications to all customers.

3.8kW ...>> 11.4kW



For more information about the Fox ESS range, visit:  
[us.fox-ess.com](http://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				