



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



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	
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]						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									