



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 (for AC1) 3800/4180	8550/6270 5700/6270	11400/8360 7600/8360	14400/10560 9600/10560	17100/12540 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				