



# **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.



For more information about the Fox ESS range, visit: US.fox-ess.com















#### TECHNICAL SPECIFICATIONS

Grid Regulation

	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] Start-up Input Voltage [V]			600			
Rated Input Voltage [V]			100 380			
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 Strings per MPP Tracker	2 2/1	2 2/1	2 2/1	3 2/1/1	3 2/1/1	
BATTERY CONNECTION	2) 1	-/ -	2/2	2/2/2	2/1/1	
Battery Type			Lithium Battery (LFP)			
Battery Voltage Range [V]			85 ~ 460			
Rated Battery Voltage [V]			360			
Max. Continuous Charge / Discharge Current [A] Max. Continuous Charge / Discharge Power [W]	f114) F700/4180	0550/6370	50	14400/10500	17100/12540	
	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]	3800/4180	5700/6270	60	9000/10500	11400/12540	
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	
nput Voltage Range [V]			211 ~ 264 57 ~ 63			
nput Frequency Range [Hz] Rated Output Power [W]	3800	5700	7600	9600	11400	
Max. Output Power [w]	3800	5700 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)					
「HDi [%]			<3 @Rated power			
AC OUTPUT (BACKUP)						
Rated Output Power [W]			11400 5760 @H2 Ratteny			
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)				
			ਭੂਮਰ Battery (Only for non US r ਭੂਮ7 Battery (Only for non US r			
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]  Load Start Capacity [A] LRA			60 50 @H2 Battery			
Load Start Capacity [A] ENA			75 @H3 Battery			
		110 @H4 Battery				
		160 @H5 Battery 160 @H6 Battery (Only for non US mainland)				
			H7 Battery (Only for non US m			
THDv (Linear Load) [%]			<3 @Rated power	· · · · <b>,</b>		
mbalance for Split-Phase Loads [%]			100			
EFFICIENCY						
CEC Efficiency [%]			97.00			
Max. Efficiency [%]	II lead 240Vd-150/1		97.60			
Max. Battery Discharge Efficiency (BAT to AC) (@fu	II IUdū, 34UVŪC) [%]		97.40			
PROTECTION  nsulation Monitoring			YES			
HAMIGUULI MUHILUHIN			YES			
Residual Current Monitoring			YES			
Residual Current Monitoring DC Reverse Polarity Protection			YES YES			
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection						
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection			YES			
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection DC Switch			YES YES YES YES			
Residual Current Monitoring  DC Reverse Polarity Protection  Anti-islanding Protection  AC Short-circuit Protection  AC Overcurrent / Overvoltage Protection  DC Switch  SPD			YES YES YES YES DC: Type II / AC: Type II			
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Covercurrent / Overvoltage Protection DC Switch SPD AFCI			YES YES YES YES			
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection DC Switch AFCI SENERAL DATA			YES YES YES YES DC: Type II / AC: Type II YES			
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection DC Switch AFCI SENERAL DATA Dimensions (W*H*D) [inch / mm]			YES YES YES YES OC: Type II / AC: Type II YES 18.2*25.9*9.2 / 462*658*234	.5		
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection DC Switch SPD AFCI GENERAL DATA Dimensions (W*H*D) [inch / mm] Weight [ibs / kg]			YES YES YES YES OC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38	.5		
Residual Current Monitoring  DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection DC Switch BFD AFCI BEENERAL DATA Dimensions (W*H*D) [inch / mm] Weight [lbs / kg] Installation			YES YES YES YES OC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted	.5		
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection DC Switch BPD AFCI BENERAL DATA Dimensions (W*H*D) [inch / mm] Weight [ibs / kg] Installation Topology			YES YES YES YES OC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted Transformerless	.5		
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection DC Switch BPD AFCI BENERAL DATA Dimensions (W*H*D) [inch / mm] Weight [ibs / kg] Installation Gopology Cooling Method			YES YES YES YES OC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted	.5		
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection AC Switch AFCI SENERAL DATA Dimensions (W*H*D) [inch / mm] Weight [ibs / kg] Installation Topology Cooling Method Roise Emission [dB]			YES YES YES YES YES DC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted Transformerless Natural convection			
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection DC Switch AFCI SENERAL DATA Dimensions (W*H*D) [inch / mm] Weight [ibs / kg] Installation Topology Cooling Method Roise Emission [dB] Max. Operating Altitude [ft / m]		9843	YES YES YES YES DC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted Transformerless Natural convection <35	<sup>7</sup> 2000)		
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection		9843	YES YES YES YES OC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted Transformerless Natural convection <35 / 3000 (Derating above 6560 /	<sup>7</sup> 2000)		
Residual Current Monitoring  DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection  DC Switch  SPD  AFCI  SENERAL DATA  Dimensions (W*H*D) [inch / mm]  Weight [lbs / kg]  Installation  Topology  Cooling Method  Noise Emission [dB]  Max. Operating Altitude [ft / m]  Deperating Temperature [*F / *C]		9843	YES YES YES YES YES DC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted Transformerless Natural convection <35 / 3000 (Derating above 6560 /	<sup>7</sup> 2000)		
Residual Current Monitoring  DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection DC Switch  SPD  AFCI  GENERAL DATA  Dimensions (W*H*D) [inch / mm]  Weight [ibs / kg]  Installation  Topology  Cooling Method  Noise Emission [dB]  Max. Operating Altitude [ft / m]  Diperating Temperature [*F / *C]  Humidity [%]		9843	YES YES YES YES YES DC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted Transformerless Natural convection <35 / 3000 (Derating above 6560 / 40 / -25 ~ +60 (Derating above 0 ~ 100 (No Condensation)	<sup>7</sup> 2000)		
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection AC Switch BPD AFCI BENERAL DATA Dimensions (W*H*D) [inch / mm] Weight [ibs / kg] Installation Topology Cooling Method Voise Emission [dB] Max. Operating Altitude [ft / m] Deperating Temperature [*F / *C] Humidity [%] Protection Degree Standby Consumption [W]		9843	YES YES YES YES YES DC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted Transformerless Natural convection <35 / 3000 (Derating above 6560, 40 / -25 ~ +60 (Derating above 0 ~ 100 (No Condensation) Type 4X <25 4	<sup>7</sup> 2000)		
Residual Current Monitoring DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection AC Switch AFCI AFCI AFCI AFCI AFCI AFCI AFCI AFCI		9843 -13 ~ +1	YES YES YES YES YES DC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted Transformerless Natural convection <35 / 3000 (Derating above 6560 / 40 / -25 ~ +60 (Derating above 0 ~ 100 (No Condensation) Type 4X <25 4 WiFi, LAN	/ 2000) 104 / 40)		
Residual Current Monitoring  DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection DC Switch  BEPD  AFCL  GENERAL DATA  Dimensions (W*H*D) [inch / mm]  Weight [lbs / kg]  Installation  Topology  Cooling Method  Noise Emission [dB]  Max. Operating Altitude [ft / m]  Diperating Temperature [*F / *C]  Humidity [%]  Protection Degree  Standby Consumption [W]  Max. number of Inverters (Parallel)  Monitoring Module  Communication		9843 -13 ~ +1	YES YES YES YES YES DC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted Transformerless Natural convection <35 / 3000 (Derating above 6560 / 40 / -25 ~ +60 (Derating above 0 ~ 100 (No Condensation) Type 4X <25 4 WiFi, LAN , RS485, Meter, CT, ISO alarm,	/ 2000) 104 / 40)		
Residual Current Monitoring  DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection AC Overcurrent / Overvoltage Protection AC Switch  DE Switch  BED  RECI  BENERAL DATA  Dimensions (W*H*D) [inch / mm]  Weight [ibs / kg] Installation  Topology  Cooling Method  Noise Emission [dB]  Max. Operating Altitude [ft / m]  Deperating Temperature [*F / *C]  Humidity [%]  Protection Degree  Etandby Consumption [W]  Max. number of Inverters (Parallel)  Monitoring Module  Communication  Display		9843 -13 ~ +1	YES YES YES YES YES DC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted Transformerless Natural convection <35 / 3000 (Derating above 6560 , 40 / -25 ~ +60 (Derating above 0 ~ 100 (No Condensation) Type 4X <25 4 WiFi, LAN , RS485, Meter, CT, ISO alarm, LED, App, Website	/ 2000) 104 / 40)		
desidual Current Monitoring  DC Reverse Polarity Protection  INIT-islanding Protection  CC Short-circuit Protection  CC Switch  DD  CF Switch  DD  CF SENERAL DATA  Dimensions (W*H*D) [inch / mm]  Veight [ibs / kg]  Sololing Method  Loise Emission [dB]  Anax. Operating Altitude [ft / m]  Deperating Temperature [*F / *C]  Struction Degree  Strandby Consumption [W]  Anax. umber of Inverters (Parallel)  Anonitoring Module  Communication  Display  Varranty [Year]		9843 -13 ~ +1	YES YES YES YES YES DC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted Transformerless Natural convection <35 / 3000 (Derating above 6560 / 40 / -25 ~ +60 (Derating above 0 ~ 100 (No Condensation) Type 4X <25 4 WiFi, LAN , RS485, Meter, CT, ISO alarm,	/ 2000) 104 / 40)		
Residual Current Monitoring  DC Reverse Polarity Protection Anti-islanding Protection AC Short-circuit Protection AC Overcurrent / Overvoltage Protection AC Overcurrent / Overvoltage Protection AC Switch  DE Switch  DE Switch  DE Switch  DE SWITCH  DE STATE  DIMENSIONS (W*H*D) [inch / mm]  Weight [libs / kg] Installation  Topology  Cooling Method  Noise Emission [dB]  Max. Operating Altitude [ft / m]  Deperating Temperature [*F / *C]  Humidity [%]  Protection Degree  Standby Consumption [W]  Max. number of Inverters (Parallel)  Monitoring Module  Communication		9843 -13 ~ +1 CAN2.0,	YES YES YES YES YES DC: Type II / AC: Type II YES  18.2*25.9*9.2 / 462*658*234 83.8 / 38 Wall-mounted Transformerless Natural convection <35 / 3000 (Derating above 6560 , 40 / -25 ~ +60 (Derating above 0 ~ 100 (No Condensation) Type 4X <25 4 WiFi, LAN , RS485, Meter, CT, ISO alarm, LED, App, Website	/ 2000) 104 / 40) SUNSPEC		

IEEE1547-2018, IEEE1547a-2020, IEEE1547.1-2020