FOX ESS

POWERQ

Split System



Battery Ready

Meter Collar Ready

Higher LRA
160A

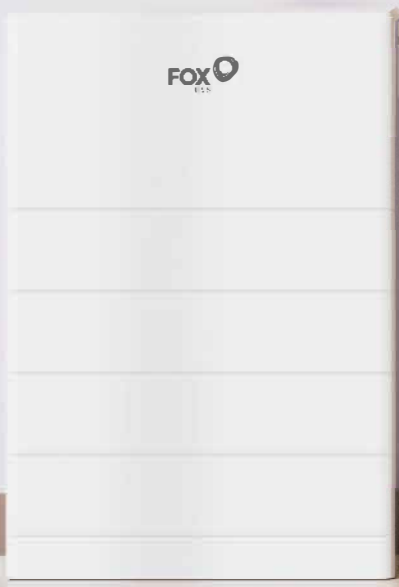
BATTERY WARMING
-13 ~ 131°F operating
temperature range

Parallel connection,
storage capacity
expandable

Generator/Smart
load control ready

Built in TIGO/APS
RSD Transmitter

TYPE 4X
Outdoor installation
suitable



POWERQ ENERGY in a NEW LIGHT

TECHNICAL SPECIFICATIONS

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	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 9	17100/12540
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		