



PowerQ

ALL-IN-ONE RESIDENTIAL ENERGY STORAGE SYSTEM



11.4kW/20kWh



FLEXIBILITY

Modular design to meet various backup scenarios.



EASY INSTALLATION

Integrated 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.

Fox ESS PowerQ is the latest generation of an integrated residential energy storage system. With up to 80kWh total backup capacity, PowerQ is designed to meet various backup scenarios via modular system design and scalability.

3.8kW ...>> 11.4kW



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



TECHNICAL SPECIFICATIONS

MODEL	AIO-AC1-3.8-US	AIO-AC1-5.7-US	AIO-AC1-7.6-US	AIO-AC1-9.6-US	AIO-AC1-11.4-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 Independent MPP Trackers	2	2	2	3	3	
No. of Strings per MPP Tracker	2 / 1	2 / 1	2 / 1	2 / 1 / 1	2 / 1 / 1	
BATTERY CONNECTION						
Battery Type			LFP (LiFePO ₄)			
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 HI)	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			
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						
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] (North America)			-13 ~ +131 / -25 ~ +55 (Derating above 104 / 40)			
Operating Temperature [°F / °C] (Non-North America)			14 ~ +131 / 10 ~ +55 (Derating above 104 / 40)			
Humidity [%]			0 ~ 100 (No Condensation)			
Protection Degree			Type 4X			
Standby consumption [W]			<25			
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, ANSI/CAN/UL9540					
EMC	FCC part15 CLASS B					
Grid Regulation	IEEE1547-2018, IEEE1547a-2020, IEEE1547.1-2020					
MODEL	AIO-US-EQL2	AIO-US-EQL3	AIO-US-EQL4	AIO-US-EQL5	AIO-US-EQL6	AIO-US-EQL7
MECHANICAL CHARACTERISTICS						
Dimensions (W*H*D) [mm]	570*848*380	570*986*380	570*1124*380	570*1262*380	570*1400*380	570*1538*380
Dimensions (W*H*D) [inch]	22.4*33.4*15.0	22.4*38.8*15.0	22.4*44.3*15.0	22.4*49.7*15.0	22.4*55.1*15.0	22.4*60.6*15.0
Weight [kg/lbs]	128.3 / 282.9	165.2 / 364.2	202.1 / 445.6	239.0 / 526.9	275.9 / 608.3	312.8 / 689.6