FOX ESS

HYBRID
ALL-IN-ONE

Fox ESS storage solutions are available with advanced and intuitive app based remote control and monitoring functionality.

Easy Installation
Flexible configuration, plug and play set-up, built-in fuse protection.

High Voltage
Includes high-voltage batteries for maximum round-trip effciency.

IP65 Rated
Engineered to last with maximum flexibility. Suitable for outdoor installation.

Remote Monitoring
Monitor your system remotely via smartphone app or web portal.

REFINED – POWERFUL – FLEXIBLE

BATTERY EXPANSION
EASY UPGRADE

A high-performance, high-efficiency system with 10.4kWh of storage capacity and up to 6kW charge/discharge rate.

For more about the Fox ESS range, visit:

WWW.FOX-ESS.COM

TECHNICAL SPECIFICATIONS

Model	AIO-H1-3.0 AIO-AC1-3.0	AIO-H1-3.7 AIO-AC1-3.7	AIO-H1-4.6 AIO-AC1-4.6	AIO-H1-5.0 AIO-AC1-5.0	AIO-H1-6.0 AIO-AC1-6.0
INPUT PV (FOR HYBRID ONLY)					
Max. Input Power [W]	3900 A:2000 B:2000	4680 A:2400 B:2400	5980 A:3000 B:3000	6500 A:3300 B:3300	7800 A:3900 B:3900
Max. Input Voltage [V]			600		
Start-up Input Voltage [V]			75		
Rated Input Voltage [V]			360		
MPPT Operating Voltage Range [V]			80 ~ 550		
Max. Input Current [A]			13.5/13.5		
Max. Short-circuit Current [A]			15/15		
No. of Independent MPP Trackers			2		
No. of Strings per MPP Tracker			1		
BATTERY CONNECTION					
Battery Type			Lithium battery (LFP)		
Battery Voltage [V]			85 ~ 234		
Max. Charge/Discharge Current [A]			40		
Communication Interface			CAN(Communicate with inverter), RS485 (Upgrade BMS)		
AC INPUT AND OUTPUT (GRID)					
Max. AC Input Power [VA]	7000	7680	9600	10000	12000
Max. AC Input Current (per phase) [A]	31.8	34.9	43.6	45.5	54.5
Rated Output Power [W]	3000	3680	4600	5000	6000
Max. Output Apparent Power [VA]	3300	4080	5060	5500	6600
Rated Output Current (per phase) [A]	13.0	16.0	20.0	21.7	26.1
Max. Output Current [A]	14.3	17.6	22.0	23.9	28.7
Rated Grid Voltage [V]			220/230/240		
Rated Grid Frequency [Hz]			50/60		
Power Factor			1 (Adjustable from 0.8 leading to 0.8 lagging)		
THDi [%]			<3 @Rated Power		
EPS OUTPUT					
Max. Output Apparent Power [VA]	5000	5000	6000	6000	6000
Peak Output Apparent Power (60s) [VA]	6000	6000	7200	7200	7200
Max. Current (per phase) [A]	21.7	21.7	26.1	26.1	26.1
Rated Output Voltage [V]			220/230/240		
Rated Output Frequency [Hz]			50/60		
Power Factor			1 (Adjustable from 0.8 leading to 0.8 lagging)		
THDv (linear Load) [%]			<2 @Rated Power		
Switch time [ms]			<20		
EFFICIENCY					
Euro Efficiency [%]			97.00		
Max. Efficiency [%]			97.80		
Max. Battery Charge Efficiency (PV to BAT) (@full load) [%]			98.50		
Max. Battery Discharge Efficiency (BAT to AC) (@full load) [%]			97.00		
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 (only for hybrid)			YES		
SPD			DC: Type II, /AC: Type III		
GENERAL DATA					
Dimensions (WxHxD) [mm]			624*1662*375		
Weight [kg]			78		
Installation			Floor-Mounted		
Topology			Transformerless		
Cooling Method			Natural		
Noise Emission [db]			35		
Max. Operating Altitude [m]			2000		
Operating Temperature Range [°C]			-25 ~ 60		
Humidity (No Condensation) [%]			0 ~ 100		
Protection Degree			IP65		
Standby consumption			<10		
Monitoring Module			WiFi, LAN, 4G, GPRS (Optional)		
Communication			2*RS485, DRM, Ripple Control, USB		
Display			LCD, App, Website		
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)					
Safety			EN 62109-1, EN 62109-2		
EMC			EN 61000-6-2, EN 61000-6-3		
Grid Regulation			EN50549-1, C10/11, VDE-AR-N 4105, G98, G99, CEI 0-21, NRS 097-2-1, AS/NZS 4777.2		

* More technical characteristics are avaliable on demand and customized.