



# AIO H1/AC1

ALL-IN-ONE ENERGY STORAGE



## HIGH VOLTAGE

Includes high-voltage batteries for maximum round-trip efficiency.



## EASY INSTALLATION

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



## IP65 RATED

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



## REMOTE MONITORING

Monitor your system remotely via smartphone app or web portal.



Advanced System Monitoring  
with **FoxCloud V2.0**

REFINED – POWERFUL – FLEXIBLE

The stunning all-in-one storage system from Fox ESS is an advanced energy storage solution contained within one compact and stylish unit. It is suitable for any room in the home or for outdoor installation, not only elegant but also space-saving.

3kW ...>> 6kW



For more information about the Fox ESS range, visit  
[www.fox-ess.com](http://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
<b>INPUT PV (FOR HYBRID ONLY)</b>					
Recommended Max. PV Input Power [W]	6000	7400	9200	10000	12000
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		
<b>BATTERY CONNECTION</b>					
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)		
<b>AC INPUT AND OUTPUT (GRID)</b>					
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		
<b>EPS OUTPUT</b>					
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		
<b>EFFICIENCY</b>					
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		
<b>PROTECTION</b>					
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		
<b>GENERAL DATA</b>					
Dimensions (W**H*D) [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		
Ingress protection			IP65		
Standby consumption			< 10		
Monitoring Module			WiFi, LAN, 4G, GPRS (Optional)		
Communication			2*RS485, DRM, Ripple Control, USB		
Display			LCD, App, Website		
<b>STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)</b>					
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 available on demand and customized.