

# HYBRID 3-PHASE AIO

ALL-IN-ONE ENERGY STORAGE

Fox 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 efficiency.



### IP65 Rated

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



### Remote Monitoring

Monitor your system remotely via smartphone app or web portal.

up to  
**10kW**  
 charge/  
 discharge



UNBALANCED LOADS SUPPORTED  
 EPS OPTION

## BATTERY EXPANSION EASY UPGRADE



A high-performance, high-efficiency all-in-one system with 10kW of storage capacity and up to 10kW rate of continuous charge/discharge.

For more about the Fox range of storage solutions, visit:

WWW.FOX-ESS.COM



# TECHNICAL SPECIFICATIONS

Model	AIO-H3-5.0-E	AIO-H3-6.0-E	AIO-H3-8.0-E	AIO-H3-10.0-E
<b>INPUT PV</b>				
Max. recommended DC power [W]	A:3000/B:3000	A:4000/B:4000	A:6000/B:4000	A:8000/B:5000
Max. DC voltage [V]			1000	
Nominal DC operating voltage [V]			720	
Max. input current (input A/input B) [A]	13.5A/13.5A	13.5A/13.5A	26A/13.5A	26A/13.5A
Start-Up voltage [V]			180V	
MPPT voltage range [Vdc]			160-950	
MPPT voltage range (Full load) [Vdc]	210-800	250-800	240-800	280-800
No. of MPP trackers			2	
Strings per MPP tracker	A:1/B:1	A:1/B:1	A:2/B:1	A:2/B:1
<b>OUTPUT AC</b>				
Nominal AC power [VA]	5000	6000	8000	10000
Max. apparent AC power [VA]	5500	6600	8800	11000
Rated grid voltage (AC voltage range) [V]		400V/230VAC;380V/220VAC,3L/N/PE		
Rated grid Frequency [Hz]		50/60, ±5		
Nominal AC current [A]	7.2	8.7	11.6	14.5
Max. AC current [A]	8.3	10.0	13.3	15.9
Displacement power factor		1(Adjustable from 0.8 leading to 0.8 lagging)		
Total harmonic distortion (THDi, rated power)		<3%		
Unbalance output		Yes		
Parallel operation		Yes		
<b>INPUT AC</b>				
Nominal AC power [VA]	5000	6000	8000	10000
Nominal AC current [A]	7.2	8.7	11.6	14.5
Max. AC current [A]	8.3	10.0	13.3	16.7
Rated grid voltage (AC voltage range) [V]		400V/230VAC;380V/220VAC,3L/N/PE		
Rated grid Frequency [Hz]		50/60		
Power factor		1(Adjustable from 0.8 leading to 0.8 lagging)		
<b>BATTERY</b>				
Battery capacity [kWh]		Up to 11.2kWh		
Battery voltage range [V]		180-700		
Max. charge/discharge power [W]	5000	6000	8000	10000
Max. charge/discharge current [A]		26		
Communication interfaces		CAN/RS485		
Reverse connect protection		YES		
<b>EPS OUTPUT</b>				
Nominal AC power [W]	5000	6000	8000	10000
Max. AC power (60s) [VA]	16000	16000	16000	16000
EPS rated voltage [V], Frequency [Hz]		400V/230VAC;380V/220VAC,3L/N/PE, 50/60		
EPS rated current (@230VAC) [A]	7.2	8.7	11.6	14.5
Switch time [s]		<1.5		
Total harmonic distortion (THDv, linear Load)		<3%		
Parallel operation		10		
<b>EFFICIENCY</b>				
MPPT efficiency		99.90%		
Euro-efficiency		97.00%		
Max. efficiency		97.80%		
Battery Charge Efficiency		98.50%		
Battery Discharge Efficiency		97.00%		
<b>POWER CONSUMPTION</b>				
Internal consumption (night) [W]		15W standby mode		
Idle mode		YES		
<b>STANDARD</b>				
Safety		IEC62109-1-2 / IEC62040 / IEC62619		
EMC		EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3		
Grid rules		VDE-AR-N 4105:2018 / G98 / G99 / AS4777 / EN50549 / CEI 0-21 / VDE 2510		
<b>ENVIRONMENT LIMIT</b>				
Protection class		IP65		
Operating temperature range [°C]		-20..... +60°C (derating at +45°C)		
Humidity [%]		0~95 (non-condensing)		
Altitude [m]		<2000		
Storage temperature [°C]		-40..... +70 (excluding battery)		
Noise emission (typical) [dB]		<40		
Over voltage category		III (electric supply side), II (PV side)		
<b>GENERAL</b>				
Dimensions (HxWxD) [mm]		1662*624*375		
Weight [kg]		80		
Cooling concept		Natural		
Topology		Transformerless		
Communication		Ethernet, Meter, WiFi/GPRS/LAN (optional), DRM, USB, BMS (CAN), RS485 CT		