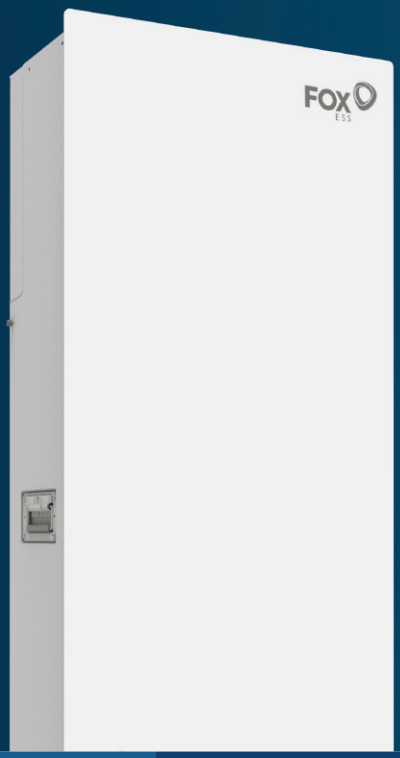
FOX ESS

DATASHEET

Three-Phase Hybrid AIO

AIO-H3-5.0-E / 6.0-E / 8.0-E / 10.0-E

HYBRID
3-PHASE AIO



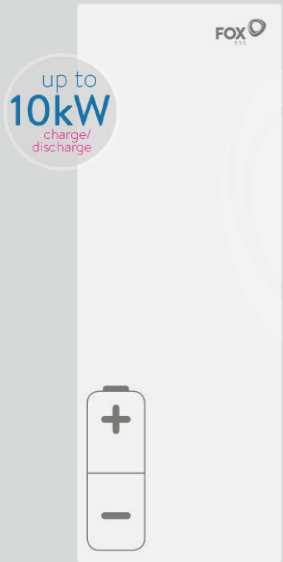
FOX storage solutions are available with advanced and intuitive app based remote control and monitoring functionality.

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.



UNBALANCED LOADS SUPPORTED

EPS OPTION

BATTERY EXPANSION

EASY UPGRADE

A high-performance, high-efficiency system with 10 kWh of storage capacity and up to 6kW charge/discharge rate

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
INPUT PV				
Max. recommended DC power [W]	7500	9000	12000	15000
Max. DC voltage [V]	1000			
Nominal DC operating voltage [V]	720			
Max. input current (input A/input B) [A]	13/13	13/13	13/13	25/13
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
OUTPUT AC				
Nominal AC power [VA]	5000	6000	8000	10000
Max. apparent AC power [VA]	5500	6600	8800	11000
Rated grid voltage (AC voltage range) [V]	220/230/240			
Rated grid Frequency [Hz]	50/60, ±5			
Nominal AC current [A]	7.2	8.7	11.6	14.5
Max. AC current [A]	8.0	9.6	12.8	15.9
Displacement power factor	0.8 leading to 0.8 lagging			
Total harmonic distortion (THDi, rated power)	<3%			
Unbalance output	Yes			
Parallel operation	Yes			
INPUT AC				
Nominal AC power [VA]	5000	6000	8000	10000
Nominal AC current [A]	7.2	8.7	11.6	14.5
Max. AC current [A]	8.0	9.6	12.8	15.9
Rated grid voltage (AC voltage range) [V]	400V/230VAC;380/220VAC			
Rated grid Frequency [Hz]	50/60			
Power factor	0.8 leading to 0.8 lagging			
BATTERY				
Battery capacity [kWh]	Up to 11.2kWh			
Battery voltage range [V]	180-800			
Max. charge/discharge power [W]	5000	6000	8000	10000
Max. charge/discharge current [A]	26			
Communication interfaces	CAN/RS485			
Reverse connect protection	YES			
EPS OUTPUT				
Nominal AC power [W]	5000	6000	8000	10000
Max. AC power (60s) [VA]	10000	12000	14000	15000
EPS rated voltage [V], Frequency [Hz]	220/230/240, 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			
EFFICIENCY				
MPPT efficiency	99.90%			
Euro-efficiency	97.00%			
Max. efficiency	97.80%			
Battery Charge Efficiency	98.50%			
Battery Discharge Efficiency	97.00%			
POWER CONSUMPTION				
Internal consumption (night) [W]	15W standby mode			
Idle mode	YES			
STANDARD				
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 / G98 / G99 / AS4777 / EN50549 / CEI 0-21 / VDE 2510			
ENVIRONMENT LIMIT				
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]	-20..... +60°C			
Noise emission (typical) [dB]	<40			
Over voltage category	III (electric supply side), II (PV side)			
GENERAL				
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			