

# HYBRID

## ALL-IN-ONE



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.



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 range, visit:

[WWW.FOX-ESS.COM](http://WWW.FOX-ESS.COM)



# TECHNICAL SPECIFICATIONS

Model	AIO-H1-5.0-HVS5.2 AIO-H1-5.0-HVS7.8 AIO-H1-5.0-HVS10.4	AIO-H1-6.0-HVS5.2 AIO-H1-6.0-HVS7.8 AIO-H1-6.0-HVS10.4
<b>INPUT PV (FOR HYBRID ONLY)</b>		
Max.recommended DC power [W]	6500	7800
Max.DC voltage [V]		600
Nominal DC operating voltage [V]		360
Max. input current [A]		13.5/13.5
Max. short circuit current [A]		15/15
MPPT voltage range [V]		80-550
No. of MPP trackers		2
Strings per MPP tracker		1
Start-up voltage [V]		75
<b>OUTPUT AC</b>		
Nominal AC power [VA]	5000	6000
Max. apparent AC power [VA]	5500	6600
Rated grid voltage (AC voltage range) [V]		220/230/240 (180 to 270)
Rated grid Frequency [Hz]		50/60±5
Nominal AC current [A]	21.7	26.1
Max. AC current [A]	23.9	28.7
Displacement power factor		0.8 leading to 0.8 lagging
Total harmonic distortion (THDI, rated power)		<3%
<b>INPUT AC</b>		
Nominal AC power [VA]	5000+5000 (Bypass)	6000+6000 (Bypass)
Nominal AC current [A]	45.5	54.6
Rated grid voltage (AC voltage range) [V]		220/230/240 (180 to 270)
Rated grid Frequency [Hz]		50/60±5
Power Factor		0.8 leading to 0.8 lagging
<b>BATTERY</b>		
Battery voltage range [V]		85-233.6
Max.charge/discharge current [A]		40
Communication interfaces		CAN/RS485
Reverse connect protection		YES
Battery capacity [kWh]		Up to 10.4
Battery type		Lithium-ion
<b>EPS OUTPUT (WITH BATTERY)</b>		
EPS rated power [VA]	6000	6600
EPS rated voltage [V], Frequency [Hz]		230VAC, 50/60
EPS rated current [A]	26.1	26.1
EPS peak power [W]		7200, 10s
Total harmonic distortion (THDv, linear Load)		<2%
Compatible with the generator		Yes
Switch time [ms]		<20
<b>EFFICIENCY</b>		
MPPT efficiency		99.90%
Euro-efficiency		97.00%
Max. efficiency		97.80%
Max. efficiency (PV to BAT) @full load		98.50%
Max. efficiency (BAT to AC) @full load		97.00%
<b>POWER CONSUMPTION</b>		
Standby consumption [W] (Idle)		<3
Idle mode		YES
<b>STANDARD</b>		
Safety		IEC62109-1/-2 / IEC62040
EMC		EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3
Certification		G98 / VDE-AR-N 4105 / G99 / AS4777 / EN50438/ CEI 0-21 / VDE 2510 / NRS097-2-1
<b>ENVIRONMENT LIMIT</b>		
Ingress protection		IP65
Operating temperature range [°C]		-25..... +60 (derating at +45)
Humidity [%]		0~100 (non-condensing)
Altitude [m]		<2000
Storage temperature [°C]		-40..... +70
Noise emission (typical) [dB]		40
Over voltage category		III (electric supply side), II (PV side)
<b>GENERAL DATA</b>		
Dimensions (HxWxD) [mm]		624*1662*375
Weight [kg]		78 (excluding batteries)
Cooling concept		Natural
Topology		Transformerless
Communication		Ethernet, Meter, WIFI/GPRS/ LAN (optional), DRM, USB, CT
Button		Capacitive Touch Sense