

# HYBRID

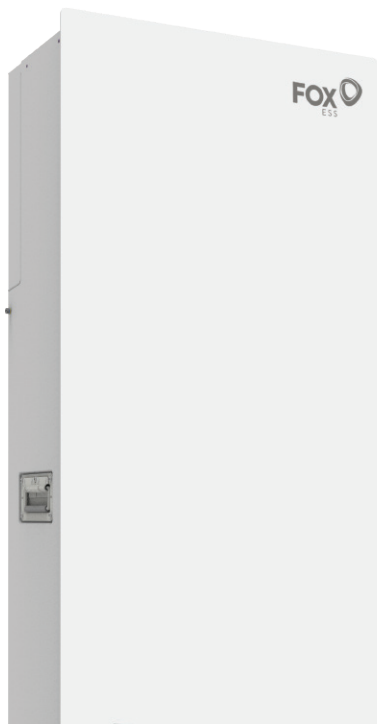
## ALL-IN-ONE



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



<h3>Easy Installation</h3> <p>Flexible configuration, plug and play set-up, built-in fuse protection.</p>	<h3>High Voltage</h3> <p>Includes high-voltage batteries for maximum round-trip efficiency.</p>	<h3>IP65 Rated</h3> <p>Engineered to last with maximum flexibility. Suitable for outdoor installation.</p>	<h3>Remote Monitoring</h3> <p>Monitor your system remotely via smartphone app or web portal.</p>
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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-H1-3.0 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>					
Max.recommended DC power [W]	4500	5550	6900	7500	9000
Max.DC voltage [V]			600		
Nominal DC operating voltage [V]			360		
Max. input current [A]			12.5/12.5		
Max. short circuit current [A]			15/15		
MPPT voltage range [V]			80-550		
No. of MPP trackers	2	2	2	2	2
Strings per MPP tracker	1	1	1	1	1
Start-up voltage [V]			75		
<b>OUTPUT AC</b>					
Nominal AC power [VA]	3000	3680	4600	4999	6000
Max. apparent AC power [VA]	3000/3300	3680/4048	5060	5500	6000
Rated grid voltage (AC voltage range) [V]			220/230/240 (180 to 270)		
Rated grid Frequency [Hz]			50/60		
Nominal AC current [A]	13	16	20	21.7	26.1
Max. AC current [A]	14.4	16/18	21	21.7	26.1
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]	3000	3680	4600	4999	6000
Nominal AC current [A]	13	16	20	21.7	26.1
Max. AC current [A]	14.4	16	21	21.7	26.1
Rated grid voltage (AC voltage range) [V]			220/230/240 (180 to 270)		
Rated grid Frequency [Hz]			50/60		
Power Factor			0.8 leading to 0.8 lagging		
<b>BATTERY</b>					
Battery voltage range [V]			85-450		
Recommended battery voltage [Vdc]			300		
Max.charge/discharge power [W]			6000		
Max.charge/discharge current [A]			35		
Communication interfaces			CAN/RS485		
Reverse connect protection			YES		
<b>EPS OUTPUT (WITH BATTERY)</b>					
EPS MAX power [VA]	5000	5000	6000	6000	6600
EPS rated power [VA]	4000	4000	5000	5000	6000
EPS rated voltage [V], Frequency [Hz]			230VAC, 50/60		
EPS rated current [A]	17.4	17.4	21.7	21.7	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%	99.90%	99.90%	99.90%	99.90%
Euro-efficiency	97.00%	97.00%	97.00%	97.00%	97.00%
Max. efficiency	97.80%	97.80%	97.80%	97.80%	97.80%
Max. efficiency (PV to BAT) @full load	98.50%	98.50%	98.50%	98.50%	98.50%
Max. efficiency (BAT to AC) @full load	97.00%	97.00%	97.00%	97.00%	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]			-20..... +60 (derating at +45)		
Humidity [%]			0~100 (non-condensing)		
Altitude [m]			<2000		
Storage temperature [°C]			-20..... +70		
Noise emission (typical) [dB]			40		
Over voltage category			III (electric supply side), II (PV side)		
<b>GENERAL DATA</b>					
Dimensions (HxWxD) [mm]			1662*624*375		
Weight [kg]			80 (excluding batteries)		
Cooling concept			Natural		
Topology			Transformerless		
Communication			Ethernet, Meter, WIFI/GPRS/ LAN (optional), DRM, USB, CT		
Button			Capacitive Touch Sense		