

Single-Phase Hybrid AIO

H1-Ultra-3.0 / 4.0 / 4.6 / 5.0



ULTRA HYBRID ALL-IN-ONE

FoxESS 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



Expand your system easily by simply adding additional batteries. There are three battery size options, and four batteries can be installed in series, providing up to 11.6kWh of storage capacity.

For more about the FoxESS Ultra range of AIO storage solutions, visit:

WWW.FOX-ESS.COM



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TECHNICAL SPECIFICATIONS

Model	H1-Ultra-3.0-E	H1-Ultra-4.0-E	H1-Ultra-4.6-E	H1-Ultra-5.0-E
DC Input				
Max. DC Input Power (W)		10000		
Max. DC Input Voltage (V)		600		
MPPT Range (V)		125~550		
Max. Input Current (A)		25/25		
Max. Short Current (A)		35		
Max. Charge Current (A)		35		
No. of MPP Trackers		2		
No. of Strings per MPP Tracker		2		
AC				
AC Output (Discharge)				
Normal Apparent AC Power [VA]	3000	3680	4600	4999
Displacement Power Factor		1 (Adjustable from 0.8 leading to 0.8 lagging)		
Rated Grid Voltage (AC Voltage Range)		220/230 Vac		
Rated Grid Frequency		50/60Hz		
Max. AC Output Current [A]	13.0	16.7	20.0	21.7
Inrush Current [A]		40A		
Total Harmonic Distortion (THDi, Nominal output)		<3%		
AC Input				
Rated Grid Voltage		220/230 VAC		
Max. AC current [A]	26.0	33.0	35.0	35.0
Inrush Current [A]		40A		
Rated grid Frequency [Hz]		50/60		
Normal AC power [VA]	6000	7600	8000	8000
EPS (E Version Only)				
EPS Rated Power [VA]	3000	3680	4600	4999
EPS Rated Voltage [V], Frequency [Hz]		230V, 50/60		
EPS Peak Power [W]	6000 (10s)		8000 (10s)	
Switch Time [ms]		<=20		
Total Harmonic Distortion (THDv, Linear Load)		3%		
BATTERY				
Battery Voltage Range [V]	80~300	80~300	80~300	80~300
Max. Charge Current [A]	35	35	35	35
Max. Discharge Current [A]	50 (30min)	50 (30min)	50 (30min)	50 (30min)
Rated Discharge Current [A]	35	35	35	35
Communication Interfaces		CAN / RS485		
Battery Type		Lithium-Ion		
EFFICIENCY				
Max. Discharge Efficiency	96.00%	96.00%	97.00%	97.00%
Max. Charge Efficiency	96.00%	96.00%	97.00%	97.00%
Max. Efficiency	96.00%	96.00%	97.00%	97.00%
PROTECTION				
Anti-Islanding Protection		YES		
Insulation Monitoring		YES		
Residual Current Monitoring		YES		
AC Short Circuit Protection		YES		
AC Output Over Current Protection		YES		
AC Output Over Voltage Protection		YES		
Surge Protection		YES		
Temperature Protection		YES		
STANDARD				
Safety		IEC62109-1-2		
EMC		IEC 61000-6-1/IEC 61000-6-2 /IEC 61000-6-3		
Certification		G98/G99/AS4777/CEI 0-21/EN50549/VDE-AR-N 4105		
GENERAL DATA				
Dimensions (WxHxD) [mm]		1580*740*325		
Weight [kg]		60kg		
Cooling Concept		Natural		
Topology		Not Isolation		
Protection Class		IP65		
Noise Emission (Typical) [dB]		<35		
Operating Temperature Range [°C]		-20.....+60°C (derating at +45°C)		
Humidity		0~100%		
Self Consumption [W]		<10W		
Monitoring Module (Optional)		External WIFI/LAN/GPRS		
Communication		Meter, CT1, CT2, USB, ISO alarm, CAN, 485		
Display		Led Screen, App, Web site		

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