

DATASHEET

Single-Phase Hybrid Invetrer

H1-3.0 / 3.7 / 4.6 / 5.0 / 6.0



FOXESS HYBRID INVERTER

Harness the power of the sun day and night with the ground-breaking range of hybrid inverters from FoxESS.

Full of advanced features and compatible with our very own range of high-voltage batteries, the hybrid range from FoxESS is a new class of Inverter.





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



Flexible configuration, plug and play set-up, built-in fuse protection.



Connects to 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.



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 range, visit:

WWW.FOX-ESS.COM









TECHNICAL SPECIFICATIONS

Model	H1-3.0	H1-3.7	H1-4.6	H1-5.0	H1-6.0
NPUT PV					
Max.recommended DC power [W]	3900	4680	5980	6500	7800
flax.DC voltage [V]			600		
Iominal DC operating voltage [V]			360		
Лах. input current [A]			12.5		
Лах. short circuit current [A]			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
DUTPUT AC					
Nominal AC power [VA]	3000	3680	4600	4999	6000
Max. apparent AC power [VA]	3000/3300	3680/4048	4600	5500	6600
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	28.71
Displacement power factor			0.8 leading to 0.8 lagging		
otal harmonic distortion (THDi, rated power)	<3%				
NPUT AC					
	3000	3680	4600	4999	6000
Iominal AC current [A]					
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		
BATTERY					
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		
PS OUTPUT (WITH BATTERY)					
PS MAX power [VA]	5000	5000	6000	6000	7200
PS rated power [VA]	4000	4000	5000	5000	6000
PS rated voltage [V], Frequency [Hz]			230VAC, 50/60		
PS rated current [A]	17.4	17.4	21.7	21.7	26.1
EPS peak power [W]			7200, 10s		
Fotal harmonic distortion (THDv, linear Load)			<2%		
Compatible with the generator					
EFFICIENCY					
MPPT efficiency	99.90%	99.90%	99.90%	99.90%	99.90%
uro-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%
POWER CONSUMPTION					
tandby consumption [W] (Idle)			<3		
dle mode			YES		
TANDARD					
afety	IEC62109-1/-2 / IEC62040				
MC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3				
Cetification	G9	98 / VDE-AR-N 4105 / G99	9 / AS4777 / EN50438/ CEI 0	-21 / VDE 2510 / NRS097-2	?-1
NVIRONMENT LIMIT					
ngress protection			IP65		
Operating temperature range [°C]	-20 +60 (derating at +45)				
lumidity [%]	0~100 (non-condensing)				
Altitude [m]	<2000				
torage temperature [°C]	-20 +60				
loise emission (typical) [dB]	40				
Over voltage category		III	(electric supply side), II (PV s	side)	
ENERAL DATA			,		
			422*413*178		
Dimensions (WxHxD) [mm]			422*413*1/8		
Weight [kg]					
Cooling concept	Natural				
opology	Transformerless				
communication	Ethernet, Meter, WIFI(optional), DRM, USB, CT				
.CD display			Backlight 20*4 character		