

## DATASHEET Three-Phase Hybrid/AC Inverter H3-5.0-E / 6.0 / 8.0 / 10.0 /12.0 AC3-5.0-E / 6.0 / 8.0 / 10.0

# H3&AC3 HYBRID/AC INVERTER

Harness the power of the sun day and night with the ground-breaking range of Hybrid & AC inverters from Fox ESS.

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





Fox ESS 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 effciency.



#### 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**







Easily expand your system by just add extra batteries. There are three battery series you can choose, which enables a storage capacity of up to 33.24 kWh. There are Max. 10 storage inverters can be connected in parallel to allow you enlarge the system scale base on different installation requirement.

For more about the Fox ESS range, visit:

WWW.FOX-ESS.COM









### TECHNICAL SPECIFICATIONS

Model	H3-5.0-E AC3-5.0-E	H3-6.0-E AC3-6.0-E	H3-8.0-E AC3-8.0-E	H3-10.0-E AC3-10.0-E	H3-12.0-E
IPUT PV (only for hybrid)					
lax. Input Power [W]	A:6500 B:4000	A:6500 B:4000	A:8000 B:5000	A:8000 B:5000	A:8000 B:5000
lax. Input Voltage [V]			1000 [1]		
art-up Input Voltage [V]			160		
ated Input Voltage [V]			720		
IPPT Operating Voltage Range [V]			160~950		
	14/14	14/14	26/14	26/14	26/14
lax. Input Current [A]					
lax. Short-circuit Current [A]	16/16	16/16	32/16	32/16	32/16
o. of Independent MPP Trackers			2		
o. of Strings per MPP Tracker	1/1	1/1	2/1	2/1	2/1
ATTERY CONNECTION					
attery Type			Lithium Battery (LFP)		
attery Voltage Range [V]			180 ~ 600 [2]		
lax. Charge/Discharge Current [A]	26.0				
ommunication Interface	CAN(Communicate with inverter), RS485 (Upgrade BMS)				
C INPUT AND OUTPUT (GRID)			, , , , ,	,	
	10000	12000	16000	16000	16000
ax. AC Input Power [VA]					
ax. AC Input Current (per phase) [A]	15.2	18.2	24.2	24.2	24.2
ated Output Power [W]	5000	6000	8000	10000	12000
ax. Output Apparent Power [VA]	5500	6600	8800	11000	13200
ated Output Current (per phase) [A]	7.2	8.7	11.6	14.5	17.4
ax. Output Current (per phase) [A]	8.0	9.6	12.8	16.0	19.2
ated Grid Voltage [V]			3L/N/PE 380/220; 400/230; 415/240		
ated Grid Frequency [Hz]					
			50/60, ±5	-1	
ower Factor			1 ( Adjustable from 0.8 leading to 0.8 lagging	g )	
IDI [%]			<3 @Rated Power		
PS OUTPUT					
ax. Output Apparent Power [VA]	5000	6000	8000	10000	12000
eak Output Apparent Power (60s) [VA]	10000	12000	14000	15000	15000
ax. Output Current (per phase) [A]	15.2	18.2	21.2	22.7	22.7
ated Output Voltage [V]			3L/N/PE 400/230	==	
			50/60		
ated Output Frequency [Hz]					
ower Factor			1 ( Adjustable from 0.8 leading to 0.8 laggin	g )	
HDv ( linear Load) [%]			<3 @Rated Power		
witch time [ms]			<20		
FICIENCY					
ro Efficiency [%]	97.20	97.20	97.30	97.30	97.30
ax. Efficiency [%]	97.80	97.80	98.00	98.00	98.00
1ax. Battery Charge Efficiency (PV to BAT) (@full load) [%]			98.50		
lax. Battery Discharge Efficiency (BAT to AC) (@full load) [%]			97.00		
			37.00		
ROTECTION					
sulation Monitoring			YES		
esidual Current Monitoring			YES		
C Reverse Polarity Protection			YES		
nti-islanding Protection			YES		
C Short-circuit Protection			YES		
C Overcurrent/Overvoltage Protection			YES		
C Switch			YES		
D D			DC: Type II, /AC: Type II		
CI			Optional		
ENERAL DATA					
mensions (W*H*D) [mm]			449*519*198		
eight [kg]					
- 1 - 1			28		
stallation			Wall-Mounted		
pology			Transformerless		
oling Method		Natural		FAN Coolin	g
oise Emission [db]		35		45	
ax. Operating Altitude [m]			2000		
perating Addude [m]			-25 ~ 60		
midity ( No Condensation ) [%]			0 ~ 100		
gress protection			IP65		
andby Consumption [W]			<15		
onitoring Module			WiFi, LAN, 4G, GPRS (Optional)		
ommunication			2*RS485, DRM, Ripple Control, USB		
splay			LCD, App, Website		
ANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)					
fety			EN 62109-1, EN 62109-2, EN 62477-1		
IC .			IEC 61000-6-1, IEC 61000-6-3		
			0549-1, C10/11, VDE-AR-N 4105, G98, CEI 0		

<sup>\*</sup> More technical characteristics are avaliable on demand and customized.

<sup>[1]</sup> For 1000V system, PV maximum operating voltage is 950V.

<sup>[2]</sup> Minimum operation battery voltage is 150V.