

## 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
NPUT PV (only for hybrid)					
1ax. Input Power [W]	A:4000 B:4000	A:4000 B:4000	A:8000 B:5000	A:8000 B:5000	A:8000 B:500
1ax. Input Voltage [V]			1000 [1]		
tart-up Input Voltage [V]			160		
ated Input Voltage [V]			720		
1PPT Operating Voltage Range [V]			160~950		
	14/14	14/14	26/14	26/14	26/14
Max. Input Current [A]					
Max. Short-circuit Current [A]	16/16	16/16	32/16	32/16	32/16
Io. of Independent MPP Trackers			2		
Io. 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]		
Nax. Charge/Discharge Current [A]	26.0				
Communication Interface	CAN(Communicate with inverter), RS485 (Upgrade BMS)				
		57111	communicate with invertery, no los (oppidat	. 5.11157	
C INPUT AND OUTPUT (GRID)	10000	40000	46000	46000	4.000
lax. AC Input Power [VA]	10000	12000	16000	16000	16000
Nax. 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
Max. 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
Nax. Output Current (per phase) [A]	8.3	10.0	13.3	16.7	20.0
lated Grid Voltage [V]	0.5	10.0		10.7	20.0
			3L/N/PE 380/220; 400/230; 415/240		
ated Grid Frequency [Hz]			50/60		
ower Factor			1 ( Adjustable from 0.8 leading to 0.8 lagging		
HDI [%]			<3 @Rated Power		
PS OUTPUT					
Nax. Output Apparent Power [VA]	5000	6000	8000	10000	12000
eak Output Apparent Power (60s) [VA]	10000	12000	14000	15000	15000
Nax. Current (per phase) [A]	7.2	8.7			17.4
	7.2	8.7	11.6	14.5	17.4
ated Output Voltage [V]			3L/N/PE 400/230		
ated Output Frequency [Hz]			50/60		
ower Factor			1 ( Adjustable from 0.8 leading to 0.8 lagging	)	
HDv ( linear Load) [%]			<3 @Rated Power		
witch time [ms]			<20		
FFICIENCY					
uro Efficiency [%]	97.20	97.20	97.30	97.30	97.30
Max. Efficiency [%]	97.80	97.80	98.00	98.00	98.00
Max. Battery Charge Efficiency (PV to BAT) (@full load) [%]			98.50		
Max. Battery Discharge Efficiency (BAT to AC) (@full load) [%]			97.00		
ROTECTION					
nsulation 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		
PD			DC: Type II, /AC: Type II		
			Optional		
FCI			Орпопаі		
ENERAL DATA					
imensions (W*H*D) [mm]			449*519*198		
/eight [kg]			28		
nstallation			Wall-Mounted		
			Transformerless		
opology		Natural	rransiormeness	FAN Ca-II-	a a
ooling Method				FAN Coolin	8
oise Emission [db]		35		45	
lax. Operating Altitude [m]			2000		
perating Temperature Range [°C]			-25 ~ 60		
umidity ( No Condensation ) [%]			0~100		
rotection Degree			IP65		
tandby Consumption [W]			<15		
Nonitoring Module			WiFi, LAN, 4G, GPRS (Optional)		
ommunication			2*RS485, DRM, Ripple Control, USB		
isplay			LCD, App, Website		
TANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)					
			FN 62109-1 FN 62109-2 FN 62477-1		
fety MC			EN 62109-1, EN 62109-2, EN 62477-1 IEC 61000-6-1, IEC 61000-6-3		

<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.