



# H3/AC3

THREE-PHASE **HYBRID/AC INVERTER**



## HIGH VOLTAGE

Includes high-voltage batteries for maximum round-trip efficiency.



## EASY INSTALLATION

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



## IP65 RATED

Engineered to last with maximum flexibility. Suitable for outdoor installation.



## REMOTE MONITORING

Monitor your system remotely via smartphone app or web portal.



Advanced System Monitoring  
with **FoxCloud V2.0**

REFINED – POWERFUL – FLEXIBLE

Harness the power of the sun day and night with the ground-breaking range of Hybrid & AC inverter from Fox ESS. Full of advanced features and compatible with our very own range of high-voltage batteries, the hybrid range from Fox ESS.

**H3** 5kW ...>>> 12kW  
**AC3** 5kW ...>>> 10kW



For more information about the Fox ESS range, visit:  
[www.fox-ess.com](http://www.fox-ess.com)



up to  
**12kW**  
charge/  
discharge

# 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
INPUT PV (ONLY FOR HYBRID)					
Max. Array Power [Wp]	10000	12000	16000	20000	24000
Max. Input Power [W]	A:6500 B:4000	A:6500 B:4000	A:8000 B:5000	A:8000 B:5000	A:8000 B:5000
Max. Input Voltage [V]			1000 [1]		
Start-up Input Voltage [V]			160		
Rated Input Voltage [V]			720		
MPPT Operating Voltage Range [V]			160 ~ 950		
Max. Input Current [A]	14/14	14/14	26/14	26/14	26/14
Max. Short-circuit Current [A]	16/16	16/16	32/16	32/16	32/16
No. of Independent MPP Trackers			2		
No. of Strings per MPP Tracker	1/1	1/1	2/1	2/1	2/1
BATTERY CONNECTION					
Battery Type			Lithium Battery (LFP)		
Battery Voltage Range [V]			180 ~ 600 [2]		
Max. Charge/Discharge Current [A]			26.0		
Communication Interface			CAN(Communicate with inverter), RS485 (Upgrade BMS)		
AC INPUT AND OUTPUT (GRID)					
Max. AC Input Power [VA]	10000	12000	16000	16000	16000
Max. AC Input Current (per phase) [A]	15.2	18.2	24.2	24.2	24.2
Rated Output Power [W]	5000	6000	8000	10000	12000
Max. Output Apparent Power [VA]	5500	6600	8800	11000	13200
Rated Output Current (per phase) [A]	7.2	8.7	11.6	14.5	17.4
Max. Output Current (per phase) [A]	8.0	9.6	12.8	16.0	19.2
Rated Grid Voltage [V]			3L/N/PE 380/220; 400/230; 415/240		
Rated Grid Frequency [Hz]			50/60		
Power Factor			1 ( Adjustable from 0.8 leading to 0.8 lagging )		
THDI [%]			<3 @Rated Power		
EPS OUTPUT					
Max. Output Apparent Power [VA]	5000	6000	8000	10000	12000
Peak Output Apparent Power (60s) [VA]	10000	12000	14000	15000	15000
Max. Output Current (per phase) [A]	15.2	18.2	21.2	22.7	22.7
Rated Output Voltage [V]			3L/N/PE 400/230		
Rated Output Frequency [Hz]			50/60		
Power Factor			1 ( Adjustable from 0.8 leading to 0.8 lagging )		
THDv (Linear Load) [%]			<3 @Rated Power		
Switch time [ms]			<20		
EFFICIENCY					
European 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		
PROTECTION					
Insulation Monitoring			YES		
Residual Current Monitoring			YES		
DC Reverse Polarity Protection			YES		
Anti-islanding Protection			YES		
AC Short-circuit Protection			YES		
AC Overcurrent/Overvoltage Protection			YES		
DC Switch			YES		
SPD			DC: Type II /AC: Type II		
AFCI			Optional		
GENERAL DATA					
Dimensions (W*H*D) [mm]			449*519*198		
Weight [kg]			28		
Installation			Wall-Mounted		
Topology			Transformerless		
Cooling Method		Natural		FAN Cooling	
Noise Emission [db]		35		45	
Max. Operating Altitude [m]			2000		
Operating Temperature Range [°C]			-25 ~ 60		
Humidity (No Condensation) [%]			0 ~ 100		
Ingress protection			IP65		
Standby Consumption [W]			< 15		
Monitoring Module			WiFi, LAN, 4G, GPRS (Optional)		
Communication			2*RS485, DRM, Ripple Control, USB		
Display			LCD, App, Website		
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)					
Safety			EN 62109-1, EN 62109-2, EN 62477-1		
EMC			IEC 61000-6-1, IEC 61000-6-3		
Grid Regulation			EN50549-1, C10/11, VDE-AR-N 4105, G98, CEI 0-21		

\* More technical characteristics are available on demand and customized.

[1] For 1000V system, PV maximum operating voltage is 950V.

[2] Min. operation battery voltage is 150V.