



# 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 ...>> 10kW  
**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-E1 AC3-10.0-E1
INPUT PV (ONLY FOR HYBRID)				
Max. Array Power [Wp]	10000	12000	16000	20000
Max. Input Power [W]	A:6500 B:4000	A:6500 B:4000	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
Max. Short-circuit Current [A]	16/16	16/16	32/16	32/16
No. of Independent MPP Trackers	2			
No. of Strings per MPP Tracker	1/1	1/1	2/1	2/1
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
Max. AC Input Current (per phase) [A]	15.2	18.2	24.2	24.2
Rated Output Power [W]	5000	6000	8000	10000
Max. Output Apparent Power [VA]	5500	6600	8800	11000
Rated Output Current (per phase) [A]	7.2	8.7	11.6	14.5
Max. Output Current (per phase) [A]	8.0	9.6	12.8	16.0
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
Peak Output Apparent Power (60s) [VA]	10000	12000	14000	15000
Max. Output Current (per phase) [A]	15.2	18.2	21.2	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				
Euro Efficiency [%]	97.20	97.20	97.30	97.30
Max. Efficiency [%]	97.80	97.80	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.