



# 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	H3-9.9-E AC3-9.9-E	H3-10.0-E AC3-10.0-E	H3-12.0-E
INPUT PV (ONLY FOR HYBRID)						
Max. PV Array Power [Wp]	10000	12000	16000	20000	20000	24000
Max. Input Power [W]	A:4000 B:4000	A:4000 B:4000	A:8000 B:5000	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	26/14
Max. Short-circuit Current [A]	16/16	16/16	32/16	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	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	16000
Max. AC Input Current (per phase) [A]	15.2	18.2	24.2	24.2	24.2	24.2
Rated Output Power [W]	5000	6000	8000	9900	10000	12000
Max. Output Apparent Power [VA]	5500	6600	8800	9900	11000	13200
Rated Output Current (per phase) [A]	7.2	8.7	11.6	14.3	14.5	17.4
Max. Output Current (per phase) [A]	8.3	10.0	13.3	16.5	16.7	20.0
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	10000	12000
Peak Output Apparent Power (60s) [VA]	10000	12000	14000	15000	15000	15000
Max. Current (per phase) [A]	7.2	8.7	11.6	14.5	14.5	17.4
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	97.30	97.30
Max. Efficiency [%]	97.80	97.80	98.00	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	Natural	Natural	FAN Cooling	FAN Cooling	FAN Cooling
Noise Emission [db]	35	35	35	45	45	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] Minimum operation battery voltage is 150V.