FOX ESS

DATASHEET

H3/AC3

THREE-PHASE **HYBRID/AC INVERTER**



HIGH VOLTAGE

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

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

up to **12kW** charge/ discharge



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

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 avaliable on demand and customized.

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

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