



H3-M

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

up to
15kW
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.

5kW ...>>> 15kW



For more information about the Fox ESS range, visit
www.fox-ess.com



TECHNICAL SPECIFICATIONS

Model	H3-5.0-M AC3-5.0-M	H3-6.0-M AC3-6.0-M	H3-8.0-M AC3-8.0-M	H3-10.0-M AC3-10.0-M	H3-12.0-M AC3-12.0-M	H3-15.0-M AC3-15.0-M
PV INPUT						
Max. Array Power [Wp]	11000	14000	18000	20000	20000	20000
Max. DC Input Power [W]	11000	13200	17600	18000	20000	20000
Max. DC Voltage [V]				1000 [1]		
Normal DC Operating Voltage [V]				620		
Max. MPPT Input Current [A]				20/20		
Max. MPPT Short Circuit Current [A]				25/25		
Max. MPPT Input Power [W]				10000/10000		
Min. Operating PV Voltage [V]				90 [2]		
MPPT Voltage Range [V]				120 ~ 950		
Start-up Input Voltage [V]				140		
No. of MPP Trackers				2		
Strings per MPP Tracker				1+1		
BATTERY						
Battery Type				Lithium-Ion battery (LFP)		
Battery Voltage [V]				100 ~ 800		
Min. Operating Battery Voltage [V]				100		
Min. Battery Voltage @Full AC Load [V]	108	125	160	210	250	310
Max. Charge/ Discharge Current [A]				50.0		
Communication Interface				CAN		
AC OUTPUT						
Normal AC Power [W]	5000	6000	8000	10000	12000	15000
Max. Apparent AC Power [VA]	5500	6600	8800	11000 [3]	13200	16500
Rated Grid Voltage (AC Voltage Range) [V]				400/230; 380/220, 3L/N/PE		
Rated Grid Frequency [Hz]				50/60, ±5		
Rated AC Current [A] (Per Phase)	7.6	9.1	12.1	15.2	18.2	22.7
Max. AC Current [A] (Per Phase)	8.3	10.0	13.3	16.7	20.0	25.0
Power Factor				1(Adjustable from 0.8 leading to 0.8 lagging)		
THDI [%]				<3 @rated power		
AC INPUT						
Max. AC Power [VA]	6000	7200	9600	12000	14400	16000
Rated Grid Voltage (AC Voltage Range) [V]				400/230; 380/220, 3L/N/PE		
Rated Grid Frequency [Hz]				50/60, ±5		
Max. AC Current [A] (Per Phase)	9.1	10.9	14.5	18.2	21.8	24.2
EPS OUTPUT						
Max. Apparent AC Power [VA]	5000	6000	8000	10000	12000	15000
Peak Apparent AC Power [VA] (60s)	6000	7200	9600	12000	14400	15000
Rated Output Voltage [V]				400/230; 380/220, 3L/N/PE		
Rated Grid Frequency [Hz]				50/60		
EPS Max. Current [A] (Per Phase)	7.2	8.7	11.6	14.5	17.4	21.7
Power Factor				1(Adjustable from 0.8 leading to 0.8 lagging)		
Switch Time [ms]				<10		
THDV [%]				<3 @Linear load		
EFFICIENCY						
MPPT Efficiency [%]				99.90		
Max. Efficiency [%]	97.30	97.70	97.70	97.90	97.90	97.90
Euro-Efficiency [%]	97.20	97.20	97.20	97.40	97.40	97.40
PROTECTION						
PV Reverse Polarity Protection				YES		
Battery Reverse Protection				YES		
Anti-Islanding Protection				YES		
Output Short Protection				YES		
Leakage Current Protection				YES		
Insulation Resistor Detection				YES		
Over Voltage Category				III(AC side), II(DC side)		
Reverse Connect Protection				YES		
Over-Current Protection/Over-Temperature Protection				YES		
DC/AC Surge Protection				Type II(PV)/Type II(AC)		
AFCI Protection				Optional		
DC Switch				YES		
GENERAL DATA						
Dimensions (W*H*D) [mm]				600*450*226		
Dimension of Packing (W*H*D) [mm]				665*545*390		
Net Weight [kg]				33.5		
Gross Weight [kg]				39.5		
Installation				Wall-mounted		
Operating Temperature Range [°C]				-25 ~ +60 (Derating at 45)		
Storage Temperature [°C]				-40 ~ +70		
Storage/Operation Relative Humidity [%]				0 ~ 100		
Altitude [m]				<4000 @Derating exceeding 2000		
Protective Class				I		
Ingress Protection				IP65 (For outdoor use)		
Standby Consumption [W]				25		
standby Mode				YES		
Cooling	Natural	Natural	Natural	Natural	FAN cooling	FAN cooling
Noise Grade [dB]	<40	<40	<40	<40	<55	<55
Inverter Topology				Non-isolated		
Communication Interface				Ethernet, EMS(RS485), Meter, WiLAN(Wifi+LAN+Bluetooth), 4G(Optional), DRM, Ripple Control, USB, BMS(CAN), 5G Ready		
Button				Capacitive touch sensor *4		
Buzzer				1, inside(EPS&Earth fault)		

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

[2] The starting working voltage of the power supply is 90V.

[3] Belgian safety regulations require an apparent power of 10000W to be 10000VA.