



H3 Smart

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.

5kW ...>> 15kW



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



up to
15kW
charge/
discharge

TECHNICAL SPECIFICATIONS

MODEL	H3-5.0-Smart AC3-5.0-Smart	H3-6.0-Smart AC3-6.0-Smart	H3-8.0-Smart AC3-8.0-Smart	H3-9.9-Smart AC3-9.9-Smart	H3-10.0-Smart AC3-10.0-Smart	H3-12.0-Smart AC3-12.0-Smart	H3-15.0-Smart AC3-15.0-Smart
INPUT PV (ONLY FOR HYBRID)							
Max. Array Power [Wp]	11000	14000	18000	20000	20000	24000	30000
Max. DC Input Power [W]	11000	13200	17600	18000	18000	22500	22500
Max. DC Voltage [V]				1000 [1]			
Nominal DC Operating Voltage [V]				620			
Max. MPPT Input Current [A]				20/20/20			
Max. MPPT Short Circuit Current [A]				25/25/25			
Max. MPPT Input Power [W]				10000/10000/10000			
Min. Operating PV Voltage [V]				90 [2]			
MPPT Voltage Range [V]				120 ~ 950			
Start-up Input Voltage [V]				140			
No. of MPP Trackers				3			
Strings per MPP Tracker				1+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	210	250	310
Max. Charge/ Discharge Current [A]				50.0			
Communication Interface				CAN			
AC OUTPUT							
Nominal AC Power [W]	5000	6000	8000	9900	10000	12000	15000
Max. Apparent AC Power [VA]	5500	6600	8800	9900	11000 [3]	13200	16500
Rated Grid Voltage (AC Voltage Range) [V]				400/230Vac; 380/220Vac, 3L/N/PE			
Rated Grid Frequency [Hz]				50/60, ±5			
Rated AC Current [A] (Per Phase)	7.6	9.1	12.1	15.0	15.2	18.2	22.7
Max. AC Current [A] (Per Phase)	8.3	10.0	13.3	15.0	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	12000	14400	16000
Rated Grid Voltage (AC Voltage Range) [V]				400/230Vac; 380/220Vac, 3L/N/PE			
Rated Grid Frequency [Hz]				50/60, ±5			
Max. AC Current [A] (Per Phase)	9.1	10.9	14.5	18.2	18.2	21.8	24.2
EPS OUTPUT							
Max. Apparent AC Power [VA]	5000	6000	8000	10000	10000	12000	15000
Peak Apparent AC Power [VA] (60s)	6000	7200	9600	12000	12000	14400	15000
Rated Output Voltage [V]				400/230Vac; 380/220Vac, 3L/N/PE			
Rated Grid Frequency [Hz]				50/60			
EPS Max. Current [A] (Per Phase)	7.2	8.7	11.6	14.5	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	97.90
European Efficiency [%]				97.20			
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			
Overvoltage Category				III(AC side), II(DC side)			
Reverse Connect Protection				YES			
Overcurrent Protection / Overtemperature 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]				34			
Gross Weight [kg]				40			
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]				20 ~ 25			
standby Mode				YES			
Cooling	Natural	Natural	Natural	Natural	Natural	FAN cooling	FAN cooling
Noise Grade [dB]	<40	<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), SG 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.