D A T A S H E E T Three-Phase Hybrid Inverter H3-5.0-Smart / 6.0 / 8.0 / 9.9 / 10.0 / 12.0 /15.0



HYBRID INVERTER

Harness the power of the sun day and night with the ground-breaking range of Hybrid inverters from Fox ESS.

Full of advanced features and compatible with our very own range of high-voltage batteries, the hybrid range from Fox ESS. It is a new class of Inverter.



Fox ESS storage solutions are available with advanced and intuitive app based remote control and monitoring functionality.



e IP65 Rated Remote Monitoring age Engineered to last with Monitor your system

maximum flexibility. Suitable

for outdoor installation.

Monitor your system remotely via smartphone app or web portal.



High Voltage

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



Flexible configuration, plug and play set-up, <u>built-</u>in fuse protection.



BATTERY EXPANSION EASY UPGRADE

Easily expand your system by just add extra batteries. There are three battery series you can choose, which enables a storage capacity of up to 41.93 kWh.

For more about the Fox ESS range, visit:

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

Model	H3-5.0-Smart	H3-6.0-Smart	H3-8.0-Smart	H3-9.9-Smart	H3-10.0-Smart	H3-12.0-Smart	H3-15.0-Smai
V INPUT							
/lax. Array Power [Wp]	11000	14000	18000	20000	20000	24000	30000
/lax. DC Input Power [W]	11000	13200	17600	18000	18000	22500	22500
1ax. DC Voltage [V]				1000 [1]			
Iorminal DC Operating Voltage [V]				620			
/ax. MPPT Input Current [A]				20/20/20			
Iax. MPPT Short Circuit Current [A]				25/25/25			
/lax. MPPT Input Power [W]				10000/10000/10000			
1in. Operating PV Voltage [V]				90 [2]			
1PPT Voltage Range [V]				120 ~ 950			
tart-up Input Voltage [V]				140			
Io. of MPP Trackers				3			
trings per MPP Tracker				1+1+1			
attery Type				Lithium-Ion battery (LFP)			
attery Voltage [V]				100 ~ 800			
fin. Operating Battery Voltage [V]				100			
1in. Battery Voltage @Full AC Load [V]	108	125	160	210	210	250	310
lax. Charge/ Discharge Current [A]	100	125	100	50.0	210	250	510
ommunication Interface				CAN			
СОИТРИТ							
orminal AC Power [W]	5000	6000	8000	9900	10000	12000	15000
lax. Apparent AC Power [VA]	5500	6600	8800	9900	11000 [3]	13200	16500
ated Grid Voltage (AC Voltage Range) [V]			40	00/230Vac; 380/220Vac, 3L/N	I/PE		
ated Grid Frequency [Hz]				50/60, ±5			
ated AC Current [A] (Per Phase)	7.6	9.1	12.1	15.0	15.2	18.2	22.7
ax. AC Current [A] (Per Phase)	8.3	10.0	13.3	15.0	16.7	20.0	25.0
ower Factor			1(Adju	stable from 0.8 leading to 0.8	B lagging)		
1DI [%]				<3 @rated power			
CINPUT							
lax. AC Power [VA]	6000	7200	9600	12000	12000	14400	16000
ated Grid Voltage (AC Voltage Range) [V]			40	00/230Vac; 380/220Vac, 3L/N	I/PE		
ated Grid Frequency [Hz]				50/60, ±5			
lax. AC Current [A] (Per Phase)	9.1	10.9	14.5	18.2	18.2	21.8	24.2
PS OUTPUT							
ax. Apparent AC Power [VA]	5000	6000	8000	10000	10000	12000	15000
eak Apparent AC Power [VA] (60s)	6000	7200	9600	12000	12000	14400	15000
ated Output Voltage [V]			40	00/230Vac; 380/220Vac, 3L/N	I/PE		
ated Grid Frequency [Hz]				50/60			
PS Max. Current [A] (Per Phase)	7.2	8.7	11.6	14.5	14.5	17.4	21.7
ower Factor			1(Adju	stable from 0.8 leading to 0.8	8 lagging)		
witch Time [ms]				<20			
HDV [%]				<3 @Linear load			
				99.90			
1PPT Efficiency [%]	97.30	97.70	97.70		97.90	97.90	97.90
lax. Efficiency [%] uro-Efficiency [%]	97.50	97.70	97.70	97.90 97.20	97.90	97.90	97.90
ROTECTION				97.20			
V Reverse Polarity Protection				YES			
attert Reverse Protection				YES			
nti-Islanding Protection				YES			
-							
utput Short Protection akage Current Protection				YES YES			
sulation Resistor Detection							
				YES			
ver Voltage Category everse Connect Protection				III(AC side), II(DC side) YES			
everse Connect Protection ver-Current Protection/Over-Temperature P	Protection			YES			
C/AC Surge Protection				Type II(PV)/Type II(AC)			
C/AC Surge Protection				Optional			
C Switch				YES			
ENERAL DATA				TES			
mensions (W*H*D) [mm]				600*450*226			
mension of Packing (W*H*D) [mm]				665*545*390			
et Weight [kg]				34			
ross Weight [kg]				40			
stallation				Wall-mounted			
perating Temperature Range [°C]				-25 ~ +60 (Derating at 45)			
				-40 ~ +70			
				0~100			
orage Temperature [°C]							
orage Temperature [°C] orage/Operation Relative Humidity [%]			-		000		
orage Temperature [°C] orage/Operation Relative Humidity [%] titude [m]			<	4000 @Derating exceeding 2	000		
orage Temperature [°C] orage/Operation Relative Humidity [%] titude [m] otective Class			<	4000 @Derating exceeding 2 I	000		
orage Temperature [°C] orage/Operation Relative Humidity [%] titude [m] otective Class gress Protection			<	4000 @Derating exceeding 2 I IP65 (For outdoor use)	000		
orage Temperature [°C] orage/Operation Relative Humidity [%] titude [m] otective Class gress Protection andby Consumption [W]			<	4000 @Derating exceeding 2 I IP65 (For outdoor use) 20 ~ 25	000		
orage Temperature [°C] orage/Operation Relative Humidity [%] titude [m] otective Class gress Protection andby Consumption [W] andby Mode	Natural	Natural		4000 @Derating exceeding 2 I IP65 (For outdoor use) 20~25 YES		FAN cooling	FAN cooling
orage Temperature [°C] orage/Operation Relative Humidity [%] itude [m] otective Class gress Protection andby Consumption [W] andby Mode ioling	Natural <40	Natural <40	Natural	4000 @Derating exceeding 2 I IP65 (For outdoor use) 20 ~ 25 YES Natural	Natural	FAN cooling	FAN cooling <55
orage Temperature [°C] orage/Operation Relative Humidity [%] titude [m] otective Class gress Protection andby Consumption [W] andby Mode boling pise Grade [dB]	Natural <40	Natural <40		4000 @Derating exceeding 2 I IP65 (For outdoor use) 20 ~ 25 YES Natural <40		FAN cooling <55	FAN cooling <55
orage Temperature [°C] orage/Operation Relative Humidity [%] titude [m] otective Class gress Protection andby Consumption [W] andby Mode boling bise Grade [dB] verter Topology		<40	Natural <40	4000 @Derating exceeding 2 I IP65 (For outdoor use) 20 ~ 25 YES Natural <40 Non-isolated	Natural <40	<55	
orage Temperature [°C] orage/Operation Relative Humidity [%] titude [m] otective Class gress Protection andby Consumption [W] andby Mode obling oise Grade [dB] verter Topology ommunication Interface		<40	Natural <40	4000 @Derating exceeding 2 I IP65 (For outdoor use) 20 ~ 25 YES Natural <40 Non-isolated Nh-Bluetooth), 4G(Optional),	Natural <40	<55	
orage Temperature [°C] orage/Operation Relative Humidity [%] itude [m] obtective Class ress Protection Indby Consumption [W] indby Mode oling ise Grade [dB] rerter Topology mmunication Interface D Display		<40	Natural <40	4000 @Derating exceeding 2 I IP65 (For outdoor use) 20 ~ 25 YES Natural <40 Non-isolated KN+Bluetooth), 4G(Optional), Backlight 16*4 character	Natural <40	<55	
orage Temperature [°C] orage/Operation Relative Humidity [%] titude [m] otective Class gress Protection andby Consumption [W] andby Mode ooling jise Grade [dB] verter Topology		<40	Natural <40	4000 @Derating exceeding 2 I IP65 (For outdoor use) 20 ~ 25 YES Natural <40 Non-isolated Nh-Bluetooth), 4G(Optional),	Natural <40 DRM, Ripple Control, USB,	<55	

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

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