



1K5-HI-V1

THREE-PHASE **HYBRID 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 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	1K5-HI-5-V1	1K5-HI-6-V1	1K5-HI-8-V1	1K5-HI-10-V1	1K5-HI-12-V1	1K5-HI-15-V1
PV INPUT						
Max. Array Power [Wp]	11000	14000	18000	20000	24000	30000
Max. DC Input Power [W]	11000	13200	17600	18000	22500	22500
Max. DC Voltage [V]				1000 [1]		
Normal 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	250	310
Max. Charge/ Discharge Current [A]				50.0		
Communication Interface				CAN		
AC OUTPUT						
Normal AC Power [W]	5000	6000	8000	10000	12000	15000
Rated Output Apparent Power [VA]	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]				400/230Vac; 380/220Vac, 3L/N/PE		
Rated Grid Frequency [Hz]				50/60, ±5		
Rated AC Current [A] (Per Phase)	7.6	9.1	12.1	15.2	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]				400/230Vac; 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	21.8	24.2
EPS OUTPUT						
Normal Output Power [W]	5000	6000	8000	10000	12000	15000
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]				400/230Vac; 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	17.4	21.7
Power Factor				1(Adjustable from 0.8 leading to 0.8 lagging)		
Switch Time [ms]				<20		
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		
PROTECTION						
PV Reverse Polarity Protection				YES		
Battert Reverse Protection				YES		
Anti-Islanding Protection				Active Frequency Drift with Positive Feedback		
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]				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	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		
LCD Display				Backlight 16*4 character		
Standard Warranty [year]				10		
Button				Capacitive touch sensor *4		
Buzzer				1, inside(EPS&Earth fault)		
MANUFACTURE						
Country of Origin				China		

[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.