

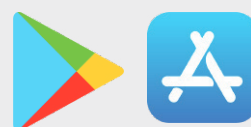


K SERIES

SINGLE PHASE INVERTER

Harness the power of the sun day and night with the ground-breaking range of Hybrid & AC 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 is a new class of Inverter.



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



Easy Installation

Flexible configuration, plug and play set-up, built-in fuse protection.



High Voltage

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



IP65 Rated

Engineered to last with maximum flexibility. Suitable for outdoor installation.



Remote Monitoring

Monitor your system remotely via smartphone app or web portal.



up to
10.5kW
charge/
discharge

REFINED – POWERFUL – FLEXIBLE

BATTERY EXPANSION EASY UPGRADE



Expand your system easily by simply adding additional batteries. Seven batteries can be installed in series, providing up to 33.24kWh of storage capacity.

For more about the Fox ESS range, visit:

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

Model	KH7 KA7	KH8 KA8	KH9 KA9	KH10 KA10	KH10.5 KA10.5
ELECTRICAL CHARACTERISTICS					
Battery Type				Li-Ion	
Battery Voltage Range [V]				85 ~ 480	
Recommended Battery Voltage [V]				300VDC	
Max. Charge Current [A]				50	
Max. Discharge Current [A]				50	
Communication Interfaces				CAN / RS485	
Reverse Connect Protection				YES	
INPUT PV (FOR KH ONLY)					
Max. Recommended DC Power [W]	10500	12000	13500	15000	15000
Max. DC Voltage [V]				600	
Normalinal DC Operating Voltage [V]				360	
Max. Input Current (Input A / Input B) [A]	16 / 16 / 16 ^{II}		16 / 16 / 16 / 16 ^{III}		
Max. Short Circuit Current (Input A / Input B) [A]	20 / 20 / 20		20 / 20 / 20 / 20		
Max. Inverter Backfeed Current to the Array [mA]				0	
MPPT Voltage Range [V]				80 ~ 500	
Start-up Voltage [V]				75	
No. of MPP Trackers	3		4		
Strings Per MPP Tracker				1	
DC Disconnection Switch				Optional	
OUTPUT AC					
Normalinal AC Power [VA]	7000	8000	9000	10000	10500
Max. Apparent AC power [VA]	7700	8800	9900	10500	10500
Rated Grid Voltage (AC Voltage Range) [V]				220 / 230 / 240 (180 ~ 270)	
Rated Grid Frequency [Hz]				50 / 60, ±5	
Normalinal AC Current [A]	30.4	34.8	39.1	43.5	45.7
Max. AC Current [A]	33.5	38.3	43.0	45.7	47.7
Displacement Power Factor				0.8 Leading to 0.8 Lagging	
Total Harmonic Distortion (THDi, Rated Power) [%]				<3	
INPUT AC					
Max AC Power [VA]	14000	16000	18000	18000	18000
Max. AC Current [A]	60.9	69.6	78.3	78.3	78.3
Rated Grid Voltage (AC Voltage Range) [V]				220 / 230 / 240 (180 ~ 270)	
Rated Grid Frequency [Hz]				50 / 60, ±5	
EPS OUTPUT (WITH BATTERY)					
Max. EPS Power [VA]	7000	8000	9000	10000	10500
EPS Rated Voltage [V], Frequency [Hz]				220/230/240, 50 / 60	
Max. EPS Current [A]	31.8	36.4	40.9	45.5	47.7
EPS Peak Power [W]	10000, 60s		12000, 60s		
Switch Time [ms]				<20	
Total Harmonic Distortion (THDv, Linear Load) [%]				<2	
Parallel Operation				Yes @max10PCS	
EFFICIENCY					
MPPT Efficiency [%]				99.90	
Euro-efficiency [%]				97.40	
Max. Efficiency [%]				97.80	
Max. Battery Charge Efficiency (PV to BAT) (@Full Load) [%]				98.50	
Max. Battery Charge / Discharge Efficiency (BAT to AC) (@Full Load) [%]				97.00	
PROTECTION					
PV Reverse Polarity Protection				YES	
Battert Reverse Protection				YES	
Anti-islanding Protection				YES	
Output Short Protection				YES	
Leakage Current Protection				YES	
Insulation Resistor Detection				YES	
Over-current Protection / Over-temperature Protection				YES	
Over Voltage Category				III (AC side), II (DC side)	
AC/DC Surge Protection				Type II / Type II	
AFCI Protection				Optional	
POWER CONSUMPTION					
Standby Consumption [W] (Ldle)				<15	
STANDARD					
Safety				IEC62109-1 / IEC62109-2 / IEC 62477-1	
EMC				EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3	
Cetification				G99 / AS4777.2 / EN50549-1 / CEI 0-21 / NRS 097-2-1 and so on	
ENVIRONMENT LIMIT					
Ingress Protection				IP65	
Protective Class				Class I	
Operating Temperature Range [°C]				-25..... +60 (Derating at +45)	
Humidity [%]				0 ~ 95 (Non-condensing)	
Altitude [m]				<2000	
Storage Temperature [°C]				-40..... +70	
Noise Emission (Typical) [dB]				<30	
DIMENSION AND WEIGHT					
Dimensions (W * H * D) [mm]				450*527*208	
Weight [kg]				29 (KH) / 27.5 (KA)	
Cooling Concept				Natural	
Topology				Non-isolated	
Communication				Meter(Optional), WIFI, 4G (Optional), DRM, USB, CT, RS485	
LCD Display				Backlight 16*4 Character	

* More technical characteristics are available on demand and customized.

^{III} The maxium generating power of each pv string is limited to 3300 watts.