

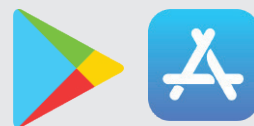


K SERIES

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				
Norminal DC Operating Voltage [V]	360				
Max. Input Current (Input A / Input B) [A]	16 / 16 / 16 ^{II}		16 / 16 / 16 / 16 ^{II}		
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					
Norminal 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				
Norminal 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] (Idle)	<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 / 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.

^[1] The maxium generating power of each pv string is limited to 3300 watts.