

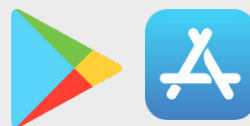


## K SERIES

### 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](http://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	
Max. DC Voltage [V]							600			
Normalinal DC Operating Voltage [V]							360			
Max. Input Current (Input A / Input B) [A]			16 / 16 / 16 <sup>II</sup>						16 / 16 / 16 / 16 <sup>II</sup>	
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	
Max. Apparent AC power [VA]			7700		8800		9900		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	
Max. AC Current [A]			33.5		38.3		43.0		45.7	
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	
Max. AC Current [A]			60.9		69.6		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	
EPS Rated Voltage [V], Frequency [Hz]					220/230/240, 50 / 60					
Max. EPS Current [A]			31.8		36.4		40.9		45.5	
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.

<sup>[1]</sup> The maxium generating power of each pv string is limited to 3300 watts.