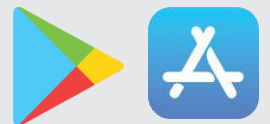




K SERIES

SINGLE PHASE INVERTER

Harness the power of the sun day and night with the ground-breaking range of Hybrid & AC inverters from FOX. Full of advanced features and compatible with our very own range of high-voltage batteries, the hybrid range from FOX is a new class of Inverter.



FOX 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

Connects to 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. Eight batteries can be installed in series, providing up to 32.8kWh of storage capacity.

For more about the FOX 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]					85-450					
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]			9100		10400		11700		13000 15000	
Max. DC Voltage [V]					600					
Norminal DC Operating Voltage [V]					360					
Max. Input Current (Input A / Input B) [A]			16/16/16		16/16/16/16					
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 to 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 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 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 to 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]					230VAC, 50/60					
Max. EPS Current [A]			30.4		34.8		39.1		43.5 45.7	
EPS Peak Power [W]			10000, 30s		12000, 60s					
Switch Time [s]					<20ms					
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 / -2 / IEC62040 / IEC 62477					
EMC					EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3					
Cetification					G98 / G99 / AS4777.2 / EN50549-1 / CEI 0-21 / VDE-AR-N 4105 / NRS 097-2-1 and so on					
ENVIRONMENT LIMIT										
Ingress Protection					IP65					
Protective Class					Class I					
Operating Temperature Range [°C]					-25..... +60°C (Derating at +45°C)					
Humidity [%]					0 ~ 95 (Non-condensing)					
Altitude [m]					<2000					
Storage Temperature [°C]					-40..... +70°C					
Noise Emission (Typical) [dB]					<30					
DIMENSION AND WEIGHT										
Demensions (W * H * D) [mm]					450*527*203mm					
Weight [kg]					29Kg					
Cooling Concept					Natural					
Topology					Non-isolated					
Communication					Ethernet, Meter, WIFI, 4G (Optional), DRM, USB, CT, RS485					
LCD Display					Backlight 16*4 Character					

* More technical characteristics are available on demand and customized.