

# KH/KA

## SINGLE-PHASE HYBRID/AC INVERTER

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.



7kW ...>> 10.5kW



Advanced System Monitoring  
with **FoxCloud 2.0**



### HIGH EFFICIENCY

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.
- AI assistant helps better understand and manage your system.



# TECHNICAL SPECIFICATIONS

MODEL	KH7 KA7	KH8 KA8	KH9 KA9	KH10 KA10	KH10.5 KA10.5
<b>ELECTRICAL CHARACTERISTICS</b>					
Battery Type	Li-Ion				
Battery Voltage Range [V]	85 - 480				
Recommended Battery Voltage [V]	300				
Max. Charge Current [A]	50				
Max. Discharge Current [A]	50				
Communication Interfaces	CAN / RS485				
Reverse Connect Protection	YES				
<b>INPUT PV (FOR KH ONLY)</b>					
Max. Array Power [Wp]	15000	16000	18000	20000	21000
Max. Input Power [W]	10500	12000	13500	15000	15000
Max. DC Voltage [V]	600				
Nominal DC Operating Voltage [V]	360				
Max. Input Current (Input A / Input B) [A]	16 / 16 / 16	16 / 16 / 16	16 / 16 / 16 / 16	16 / 16 / 16 / 16	16 / 16 / 16 / 16
Max. Short Circuit Current (Input A / Input B) [A]	20 / 20 / 20	20 / 20 / 20	20 / 20 / 20 / 20	20 / 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	3	4	4	4
Strings per MPP Tracker	1				
DC Disconnection Switch	Optional				
<b>OUTPUT AC</b>					
Nominal 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				
Nominal 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				
THDi (Rated Power) [%]	<3				
<b>INPUT AC</b>					
Max AC Power [VA]	14000	14500	14500	14500	14500
Max. AC Current [A]	60.9	63.0	63.0	63.0	63.0
Rated Grid Voltage (AC Voltage Range) [V]	220 / 230 / 240 (180 - 270)				
Rated Grid Frequency [Hz]	50 / 60, ±5				
<b>EPS OUTPUT (WITH BATTERY)</b>					
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 (60s) [W]	10000	10000	12000	12000	12000
Switch Time [ms]	<6				
THDv (Linear Load) [%]	<2				
Parallel Operation	Yes @max10PCS				
<b>EFFICIENCY</b>					
MPPT Efficiency [%]	99.90				
European Efficiency [%]	97.40				
Max. Efficiency [%]	97.80				
Max. Battery Charge Efficiency (PV to BAT) (@Full Load) [%]	98.50				
Max. Battery Discharge Efficiency (BAT to AC) (@Full Load) [%]	97.00				
<b>PROTECTION</b>					
PV Reverse Polarity Protection	YES				
Battery Reverse Protection	YES				
Anti-islanding Protection	YES				
Output Short Protection	YES				
Leakage Current Protection	YES				
Insulation Resistor Detection	YES				
Overcurrent Protection / Overtemperature Protection	YES				
Overvoltage Category	III (AC side), II (DC side)				
AC/DC Surge Protection	Type II / Type II				
AFCI Protection	Optional				
<b>POWER CONSUMPTION</b>					
Standby Consumption [W] (Idle)	<15				
<b>STANDARD</b>					
Safety	IEC62109-1 / IEC62109-2 / IEC 62477-1				
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3				
Certification	G99 / EN50549 / NRS 097-2-1				
<b>ENVIRONMENT LIMIT</b>					
Ingress Protection	IP65				
Protective Class	Class I				
Operating Temperature Range [°C]	-25 - +60 (Derating at +45)				
Humidity [%]	0 - 95 (No condensation)				
Altitude [m]	<2000				
Storage Temperature [°C]	-40 ~ +70				
Noise Emission (Typical) [dB]	<30				
<b>DIMENSION AND WEIGHT</b>					
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				

\* More technical characteristics are available on demand and customized.