

DATASHEET

Single Phase Hybrid / AC Inverter

KH7 / KH8 / KH9 / KH10 / KH10.5 KA7 / KA8 / KA9 / KA10 / KA10.5



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.



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









Control Cont	Model	KH7 KA7	KH8 KA8	KH9 KA9	KH10 KA10	KH10.5 KA10.5
Description Communication	ELECTRICAL CHARACTERISTICS		NA CONTRACTOR OF THE PROPERTY			TATO O
March Marc	Battery Type			Li-lon		
Main Chemosphore Main Chemos						
Machinary Control						
Part	-					
Note						
Manual Contenting will be provided 900 1603 1603 1600				YES		
Manual Congress of Surgery 10 90		9100	10400	11700	13000	15000
Security Content (Content) (Note 1) 190		3100	10400		13000	15000
March 2007 (Control				360		
Note 1985						
METHOD PROVIDED 19			20/20/20		20/20/20/20	
Memory Annotation 1968 1969 1						
Description stark						
Control Act			3		4	
	3					
Sommar American				Optional		
Mone		7000	8000	9000	10000	10500
Seed of Regunsey Fire Seed of Regunse		7700	8800		10500	10500
Martin AC Courset A 348 321 425 437						
Max. a		30.4	34.8		43.5	45.7
Maria Proves Val. Mon.						
May 24 20						
Max A C Cumm [A]				<3%		
Max. AC Current A 00 00 00 00 00 00 00		14000	16000	18000	18000	18000
Record Frequency Ital It		60.9	69.6	78.3	78.3	78.3
Part						
Max 1900 1				50/60,±5		
Part	· · · · · · · · · · · · · · · · · · ·	7000	9000	0000	10000	10500
Max 58 Seat Rour A 30.4 34.8 33.1 43.5 43.5 43.5 Seaton Max Max		7000	8000		10000	10500
Switch Imme [s] (20ms) Total Remonic Distortion (TRD, Linear Load) 728 Parallel Operation Yes @monitor(CS First IRON 99.90% Loo efficiency 99.90% Loo efficiency 97.00% Mox. Efficiency 97.00% Mox. Entrey (Parage Afficiency (Pv to SAI*) (Givill Load) 98.90% Mox. Entrey (Parage Afficiency (Pv to SAI*) (Givill Load) 98.90% Mox. Entrey (Parage Afficiency (Pv to SAI*) (Givill Load) 98.90% Was Entrey (Parage Afficiency (Pv to SAI*) (Givill Load) 98.90% Was Entrey (Parage Afficiency (Pv to SAI*) (Givill Load) 98.90% Was Entrey (Parage Afficiency (Pv to SAI*) (Givill Load) 98.90% Was Entrey (Parage Afficiency (Pv to SAI*) (Givill Load) 98.90% Was Entrey (Parage Afficiency (Pv to SAI*) (Givill Load) 98.90% Was Entrey (Parage Afficiency (Pv to SAI*) (Givill Load) 175. Post Section (Parage Potation) 175. Outre Journal Protection 175. Over - Long Entrey (Pv to SAI*) (Pv - Parager Afficiency (Pv - Parager Afficiency Affici		30.4	34.8		43.5	45.7
Carlo Carl			10000, 30s		12000, 6 0s	
Profession Pro						
MPP TRICkency 98 90% Mox. Efficiency 97 80% Mox. Efficiency 97 80% Mox. Sottery Charge Efficiency (Pv to BAT) (@Full Lood) 98 50% Mox. Sottery Charge Efficiency (BAT to AC) (@Full Lood) 98 50% PROFECTION VES PROFECTION YES Potential Reviews Protection YES South Anti-Likefully Protection YES Leckage Current Protection YES Subscition Resident Protection YES Cover-unter Protection / Over-temperature Protection YES Cover-unter Protection / Over-temperature Protection YES Cover-unter Protection / Over-temperature Protection YES ACCIPPOTATION REVIEW Subscience Subscience POWER CONSUMPTION Subscience Subscience Standard Subscience Subscience Script Consumption W (Calle) Subscience Subscience Subscience Script Co						
Euro-efficiency 97.00% Mox. Bittery Charge Efficiency (Pt to BAT) (@Full Load) 97.00% Mox. bottery Charge Efficiency (BAT to AC) (@Full Load) 97.00% Mox. Bottery Charge Efficiency (BAT to AC) (@Full Load) 97.00% PK Reverse Polonity Protection YES Botter Reverse Protection YES Auth-islanding Protection YES Output Short Protection YES Feeding Current Protection YES Feeding Current Protection YES Feeding Current Protection (Over-temperature Protection) YES Over Voltage Category III (AC side) II (DC side) AC/DC Surge Protection (Over-temperature Protection) YES Over Voltage Category III (AC side) II (DC side) AC/DC Surge Protection YES Over Voltage Category III (AC side) II (DC side) AC/DC Surge Protection YES Standard Consumption III (II) (II) (II) (II) (II) (II) (II)	EFFICIENCY					
Max Efficiency (Piv to Bat) (@full Load) 97.00% Max Battery Charge Efficiency (BATIO AC) (@Full Load) 98.700% PROTECTION YES Batter Excesse Protection YES Anti-Islanding Protection YES Anti-Islanding Protection YES Course of Protection YES Islanding Protection YES Output Short Protection YES Islanding Protection YES Output Short Protection (Yes Carent Protection) YES Over-cursent Protection (Yes Category) Ill (As Island), If (Co. Island) AC/D Surge Protection Type I/ Type II AC/D Surge Protection YES AC/D Surge Protection Type I/ Type II AC/D Surge Protection YES POWER CONSUMPTION YES Stanking Consumption [W] (Idle) YES STANDADD ECRIBORI-I / 2 / ECROBAD / ICC BAT7 Inv. Stanking Consumption [W] (Idle) STANDADD BERNINGER TUNIT Roger School (Imperciate Ronge Inc.) Stanking Consumption [W] (Imperciate Ronge Inc.) Protection (Imperciate Ronge Inc.) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Max. Bottlery Charge Efficiency (BAT to AC) (@Full Load) 98.50% Max Bottlery Charge Floischarge Efficiency (BAT to AC) (@Full Load) 97.00% PKONE-TON YES Detailed Floreste Protection YES Anti-Islanding Protection YES Output Short Protection YES Output Short Protection YES Insulation Resistor Detection / Over-temperature Protection YES Over-oursent Protection / Over-temperature Protection YES Standard Canada / Over-temperature Protection YES Standard Catagory YES Standard Catagory YES Standard Ca	•					
Mox. Bottery Charge / Discharge Efficiency (BAT to AC) (@Full Load) \$7,000 PROTECTION PY Roverse Potentiy Protection YES Botter Reverse Protection YES Anti-Islanding Protection YES Output Short Protection YES Insulation Residence Detection YES Over valuable Detection YES Over Valuage Category III (Ac side) II (Dc side) AC/DC Surge Protection Optional STANDARD IEC6209=1 / 2 / IEC62049 / IEC 62477 Standby Consumption [W] (tale) IEC6209=1 / 2 / IEC62049 / IEC 62477 Standby Consumption [W] (tale) IEC6209=1 / 2 / IEC62049 / IEC 62477 EXC IEC6209=1 / 2 / IEC62049 / IEC 62477 EXC IEC6209=1 / 2 / IEC62049 / IEC 62477 EXC IEC6209=1 / 2 / IEC62049 / IEC 62477 EXC IEC6209=1 / 2 / IEC62049 / IEC 62477 EXC IEC6209=1 / 2 / IEC62049 / IEC 62471 EXC <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
PV Reverse Potentiny Protection	Max. Battery Charge / Discharge Efficiency (BAT to AC) (@	DFull Load)				
Batter Reverse Protection YES Antiislanding Protection YES Leokage Current Protection YES Insulation Resistor Detection YES Over - current Protection VES YES Over - Current Protection Over-temperature Protection YES Over Voltage Category III (AC side), II (OC side) AC/DC Surge Protection Optional AC/DC Surge Protection Optional AC/DC Surge Protection Type II Type II Annual AC/DC Surge Protection Optional AC/DC Surge Protection Type II Type II Type II Annual AC/DC Surge Protection Type II	PROTECTION					
Anti-slanding Protection YES Output Short Protection YES Insulation Resistor Detection YES Insulation Resistor Detection YES Over-current Protection / Over-temperature Protection YES Over-current Protection / Over-temperature Protection YES Over Voltage Category III (AC side) III (DC side) AC/ DC Surge Protection Type II / Type II ACCI Protection Optional POWER CONSUMPTION Standard						
Output Short Protection YES Leck age Current Protection / VES YES Insulation Resistor Detection / Over-temperature Protection / VES YES Over Voltage Category III (Ac side). II (Oc side) AC/DC Surge Protection Type II / Type II ACC Protection Optional ACP Consumption Optional Face Consumption VII (Ide) 15 Standay Consumption VII (Ide) 15 STANDARD I EC62109-1 / -2 / EC62040 / EC 62477 EMC EN 61000-6-2 / EN 61000-6-3 Cell (Editor) CB 81 61000-6-3 / EN 61000-6-3 Cell (Editor) CB 98 / G99 / S47772 / EN50549-1 / CEI 0-21 / VDE-AR-N 4105 / NRS 097-2-1 and so on ENVIRONMENT LIMIT IP65 Ingress Protection IP65 Protective Closs Closs I Operating Temperature Range [*C] -25 + 60°C (Deroting at +45°C) Humidity [*X] 0-95 (Non-condensing) Altitude [m] < 2000						
Leokage Current Protection / VES Insulation Resistor Detection / Over-temperature Protection / Ov						
Over - Current Protection / Over - temperature Protection YES Over Voltage Category III (Ac side), II (Oc side) AC/DCS surge Protection Type II / Type II AFCI Protection Optional POWER CONSUMPTION Standay Consumption W (Latle) < 15 STANDARD Safety EC62109-1 / -2 / IEC62040 / IEC 62477 EMC EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3 Cetification G98 / G99 / AS4777 / EN50549-1 / CEI 0-21 / VDE-AR-N 4105 / NRS 097-2-1 and so on ENVIRONMENT LIMIT Ingress Protection JP65 Protective Class Class I Operating Temperature Range [°C] -25 +60°C (Deroting at +45°C) Humidity [%] 0~95 (Non-condensing) Altitude [m] < 2000 Storage Temperature [°C] -40 +70°C Notes (w) [W] [W] 30 DIMENSION AND WEIGHT Demensions (W * H * D) [mn] 450*527*203mm Weight [kg] 29kg Coofing Concept Notured Openation of Concept Notured						
Over Volkage Category III (AC side), II (DC side) AC/ DC Surge Protection Type II / Type II AC/ DP source Optional POWER CONSUMPTION Image: Consumption W (Lide) Image: Consumption W (Lide) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
AC DC Surge Protection AC Optional AC						
AFCI Protection Optional POWER CONSUMPTION IS Standby Consumption W (talle) < 15 STANDARD IEC62109=1 / -2 / IEC62040 / IEC 62477 EMC EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3 Cetification 098 / 999 / AS47772 / INS0549=1 / CEI 0-21 / VDE-AR-N 4105 / NRS 097-2-1 and so on ENVIRONMENT LIMIT IP65 Frotection IP65 Protective Class Class I Operating Temperature Range °C -25						
Standby Consumption [w] (tidle) <15	AFCI Protection					
STANDARD Safety IEC62109-1 / - 2 / IEC62040 / IEC 62477 EMC EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3 Cetification 698 / 699 / 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						
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 ENTRONMENT LIMIT Ingress Protection IP65 Protective Class Class I Operating Temperature Range [°C] -25 +60°C (Deroting at +45°C) Humidity [%] 0~95 (Non-condensing) Altitude [m] <2000 Storage Temperature [°C] -40 +70°C Noise Emission (Typical) [dB] <30 DEMENSION AND WEIGHT Demensions (W*H*D) [mm] 450*527*203mm Weight [kg] 29kg Cooling Concept Non-isolated Communication Ethernet, Meter, WEI, 46 (Optional), DRM, USB, CT, RS485				< 15		
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-I and so on ENVIRONMENT LIMIT IP65 Protection IP65 Protective Class I Class I Operating Temperature Range [°C] -25				IEOCO100 1 / 0 / IEOCO040 / IEO CO47	7	
Cetification G98 / G99 /AS4777.2 / EN50549-1 / CEI 0-2! / VDE-AR-N 4/105 / NRS 097-2-I 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 450°527*203mm Weight [kg] 29kg Cooling Concept Natural Topology Non-isolated Communication Ethernet, Meter, WFI, 4G (Optional), DRM, USB, CT, RS485			EN			
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						
Protective Class Class I Operating Temperature Range [°C] -25+60°C (Derating at +45°C) Humidity [%] 0~95 (Non-condensing) Altitude [m] <2000						
Operating Temperature Range [°C] -25+60°C (Derating at +45°C) Humidity [%] 0~95 (Non-condensing) Altitude [m] <2000	-					
Humidity [%] 0~95 (Non-condensing) Altitude [m] <2000						
Altitude [m] <2000						
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	Altitude [m]			<2000		
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						
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				<30		
Weight [kg] 29Kg Cooling Concept Natural Topology Non-isolated Communication Ethernet, Meter, WiFl, 4G (Optional), DRM, USB, CT, RS485				450*527*203mm		
Cooling Concept Natural Topology Non-isolated Communication Ethernet, Meter, WIFI, 4G (Optional), DRM, USB, CT, RS485	Weight [kg]					
Communication Ethernet, Meter, WIFI, 4G (Optional), DRM, USB, CT, RS485				Natural		
Entertoc, motor, that, to (optionary, print, cost, or, ite to						
	LCD Display		Etherne	;, Meter, WIFI, 4G (Optional), DRM, USB, C Backlight 16*4 Character	J, KS485	

 $[\]ensuremath{^*}$ More technical characteristics are avaliable on demand and customized.