



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 Lightspeed.

Full of advanced features and compatible with our very own range of high-voltage batteries, the hybrid range from Lightspeed is a new class of Inverter.





Lightspeed 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 effciency.



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. Seven batteries can be installed in series, providing up to 33.24kWh of storage capacity.

Model	KH7 KA7		KH8 KA8	KH9 KA9	KH10 KA10	KH10.5 KA10.5
ELECTRICAL CHARACTERISTICS						
Battery Type				Li-Ion 85 ~ 480		
Battery Voltage Range [V] Recommended Battery Voltage [V]				300		
Max. Charge Current [A]				50		
Max. Discharge Current [A]				50		
Communication Interfaces				CAN / RS485 YES		
Reverse Connect Protection				YES		
NPUT 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 ^[1] 20 / 20 / 20			16 / 16 / 16 / 16 ^[1] 20 / 20 / 20 / 20	
Max. Short Circuit Current (Input A / Input B) [A] Max. Inverter Backfeed Current to the Array [mA]		20 / 20 / 20		0	20 / 20 / 20 / 20	
MPPT Voltage Range [V]				80 ~ 500		
Start-up Voltage [V]				75		
No. of MPP Trackers		3			4	
Strings Per MPP Tracker DC Disconnection Switch				Optional		
DUTPUT AC				Optional		
Jorminal 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] Norminal AC Current [A]	30.4		34.8	50 / 60, ±5 39.1	43.5	45.7
Max. AC Current [A]	30.4		38.3	43.0	45.7	45.7
Displacement Power Factor	55.0		55.0	0.8 Leading to 0.8 Lagging	.5.7	47.7
otal Harmonic Distortion (THDi, Rated Power) [%]				<3		
NPUT AC	14000		10000	18000	10000	18000
Max AC Power [VA] Max. AC Current [A]	60.9		16000 69.6	78.3	18000 78.3	78.3
Rated Grid Voltage (AC Voltage Range) [V]	00.0		03.0	220 / 230 / 240 (180 ~ 270)	70.5	70.5
ated Grid Frequency [Hz]				50 / 60, ±5		
PS OUTPUT (WITH BATTERY)						
Max. EPS Power [VA]	7000		8000	9000	10000	10500
PS Rated Voltage [V], Frequency [Hz]	21.0		36.4	220/230/240, 50 / 60 40.9	45.5	47.7
Max. EPS Current [A] EPS Peak Power [W]	31.8	10000, 60s	30.4	40.9	45.5 12000, 60s	47.7
Switch Time [ms]		10000, 000		<20	12000,000	
otal Harmonic Distortion (THDv, Linear Load) [%]				<2		
Parallel Operation				Yes @max10PCS		
EFFICIENCY MPPT Efficiency [%]				00.00		
Euro-efficiency [%]				99.90 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		
PROTECTION						
PV Reverse Polarity Protection Battert Reverse Protection				YES		
Anti-islanding Protection				YES YES		
Dutput Short Protection				YES		
eakage Current Protection				YES		
nsulation Resistor Detection				YES		
Over-current Protection / Over-temperature Protection Over Voltage Category				YES III (AC side), II (DC side)		
AC/DC Surge Protection				Type II / Type II		
AFCI Protection				Optional		
POWER CONSUMPTION						
standby Consumption [W] (Ldle)				<15		
TANDARD						
afety				IEC62109-1 / IEC62109-2 / IEC 62477-1		
MC Detification				EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3 G99 / NRS 097-2-1 and so on		
NVIRONMENT LIMIT				330 / 1410 037 2 1 dilu 50 011		
ngress Protection				IP65		
rotective Class				Class I		
Operating Temperature Range [°C]				-25 ~ +60 (Derating at +45) 0 ~ 95 (Non-condensing)		
lumidity [%] .ltitude [m]				0 ~ 95 (Non-condensing) <2000		
torage Temperature [°C]				-40 ~ +70		
loise Emission (Typical) [dB]				<30		
DIMENSION AND WEIGHT						
Dimensions (W * H * D) [mm]				450*527*208		
Veight [kg] Cooling Concept				29 (KH) / 27.5 (KA) Natural		
opology				Non-isolated		
, 0,			Meter	(Optional), WIFI, 4G (Optional), DRM, USB, CT,	RS485	
communication			IVICTO	(optional), min, to (optional), billin, cob, on	110 100	

 $^{^{\}ast}$ More technical characteristics are avaliable on demand and customized.

 $^{^{\}mbox{\tiny [1]}}$ The maxium generating power of each pv string is limited to 3300 watts.