

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	15000
Max. DC Voltage [V]			600		
Norminal DC Operating Voltage [V]			360		
Max. Input Current (Input A / Input B) [A]	16 / 16 / 16 ^{II}		16 / 16 / 16 / 16 ^{II}		
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 - 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	47.7
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 - 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]			220/230/240, 50 / 60		
Max. EPS Current [A]	31.8	36.4	40.9	45.5	47.7
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		
Batter 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] (Idle)			<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.

^{II} The maxium generating power of each pv string is limited to 3300 watts.