

10/15/20kW Three-phase Commercial Energy Solution

All-in-one

Category	Item	EAHI10KTH-S		EAHI15KTH-S	EAHI20KTH-S	
PV Input Parameter	Max. Input Power	20kW		30kW	30kW	
	Input Voltage Range	160-1000VDC				
	Rated Input Voltage	650VDC				
	MPPT Voltage Range	160-950Vdc(625-800V Full power)				
	Max. Input Current Per MPPT	16A/16A		16A/32A		
	Max. Short-Circuit Current Per MPPT	24A/24A		24A/48A		
	Number of MPPTs	2				
	Number of Input Strings Per MPPT	1/1		1/2		
Battery Input Parameter	Battery Type	Lithium battery				
	Voltage Range	650-980VDC				
	Max. Charge/Discharge Current	15.4A/15.4A		23.1A/23.1A	30.8A/30.8A	
	Power of Grid	15kVA		22.5kVA	30kVA	
AC Input and Output(grid)	Max. Input Current	21.7A		32.6A	40A	
	Input Voltage Range & Frequency	320-480VAC, 50±5Hz/60±5Hz				
	Rated Output Power	11kVA/ 10kW		16.5kVA/ 15kW	22kVA/ 20kW	
	Rated Output Voltage	3/N/PE.380VAC/400VAC				
	Rated Output Frequency	50Hz/60Hz				
	Rated Output Current	15.2A/14.5A		22.8A/21.7A	30.4A/29A	
	Max. Output Current	16.7A/15.8A		25.1A/23.8A	33.5A/31.8A	
	Power Factor	> 0.99 (0.8leading-0.8lagging)				
	THDi	≤3% (@Rated power)				
	Generator Input	Max. Input Power	10kW		15kW	20kW
Max. Input Current		15.2A		22.8A	30.4A	
Rated Output Power		10kVA/ 10kW		10kVA/ 10kW	20kVA/ 20kW	
Rated Output Voltage		3/N/PE. 380VAC/400VAC				
AC Output Parameter (back-up load)	Rated Output Frequency	50Hz/60Hz				
	Rated Output Current	15.2A/14.5A		22.8A/21.7A	30.4A/29A	
	Max. Output Current	15.2A		22.8A	30.4A	
	THDv	≤3% (@Linear load)				
	Switching Time	≤10ms				
Efficiency	Max. Efficiency	98.2%				
	MPPT Efficiency	99.9%				
	Protections	Over/under voltage, over/under-frequency, over load, output short-circuit,over temperature,residual current monitoring unit, output overcurrent, insulation resistance, anti-islanding, surge protection				
Others	Surge Protection	DC Type II/AC Type III				
	Battery Modules Number	1	2	3	4	
	Battery Capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh	
	Battery Cluster Number	3				
	Dimensions(WxHxD)(mm)	450 x 1250 x 270	450 x 1600 x 270	450 x 1950 x 270	650 x 2300 x 270	
	Net Weight(kg)	120	175	230	285	
	Parallel Operation	6 units				
	Topology	Non-isolated				
	IP Rating	IP66				
	Operating Temperature	-25°C - 60°C				
	Cooling Mode	Atural cooling		Smart cooling		
	Altitude	3000m				
	Noise Level at 1m	≤25dB		≤45dB	≤50dB	
	Standards	Grid Connection	NC RFG+PTPIREE, VDE 0126, EN50549-1/10, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018, PPDS, CEI 0-21			
		EMC	IEC/EN 62109-1/-2, IEC 62040-1, IEC6 2477, IEC 62619:2022, EN 61000-6-1/-2/-3/-4			