

10-20kW Three-phase Hybrid Inverter

Category	Item	EAHI10KTH	EAHI15KTH	EAHI20KTH
PV Input Parameter	Max. Input Power	20kW	30kW	30kW
	Voltage Range	160-1000VDC		
	Rated Input Voltage	650VDC		
	Start-Up Voltage	180VDC		
	MPPT Voltage Range	160-950VDC		
	Full Power MPPT Voltage Range	625-800V		
	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	150-600VDC		
	Max. Charge/Discharge Current	50A/50A		
	Max. Apparent Power of Grid	15kVA	22.5kVA	30kVA
AC Input and Putput Parameter (grid)	Max. Input Current	22.8A	34.2A	40A
	Input Voltage Range	320-480VAC		
	Input Frequency Range	50±5Hz/60±5Hz		
	Rated Output Power	11kVA/ 10kW	16.5kVA/ 15kW	22kVA/ 20kW
	Rated Output Voltage & Frequency	3/N/PE.380VAC/400VAC, 50Hz/60Hz		
	Rated Output Current	15.2A/14.4A	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)		
	AC Output (back-up load)	Rated Output Power	10kVA/ 10kW	15kVA/ 15kW
Rated Output Current		15.2A/14.4A	22.8A/21.7A	30.4A/29A
Max. Output Current		15.2A	22.8A	30.4A
THDv		≤3% (@Linear load)		
Switching Time		≤20ms		
Max. Efficiency		97.8%		
Efficiency	MPPT Efficiency	99.9%		
	Protection	Over/under voltage, over/under-frequency, over load, output short-circuit, over temperature, residual current monitoring unit, output over-current, insulation resistance detection, anti islanding, surge protection		
Others	Surge Protection	DC Type II/AC Type III		
	Dimensions(WxHxD)(mm)	500 x 660 x 270		
	Net Weight(kg)	41		
	Parallel Operation	Suports 6 units in parallel connection		
	Topology	Non-isolated		
	IP Rating	IP66		
	Operating Temperature	-25°C - 60°C		
	Cooling Mode	Natural cooling	Smart cooling	
	Altitude	3000m		
	Noise Level (1m)	≤25dB	≤45dB	≤50dB
Standards	Installation Method	Wall-mounted		
	Safety Regulatio	VDE 0126, En50549, DIN VDE V 0124-100: 2020, VDE-AR-N 4105: 2018		
	EMC	IEC/EN 62109-1/-2		
	Grid Connection	EN 61000-6-1/-2/-3/-4		