

THREE-PHASE RESIDENTIAL ENERGY STORAGE INVERTER



EAHI10KTH
EAHI15KTH
EAHI20KTH

- █ Supports PV inverter, generators, and microgrid inputs, suitable for new and modified photovoltaic and microgrid systems
- █ App real-time monitoring, supports online remote OTA upgrades, easy operation and maintenance
- █ Supports multiple inverters with EPS output in parallel, and can be expanded to small industrial and commercial applications
- █ Mains and PV input power oversized at a ratio of 1.5, resulting in a more stable system operation
- █ Support RSD and AFCI optional configurations to provide safer protection for the system

Hybrid Inverter Specification

MODEL	EAHI10KTH	EAHI15KTH	EAHI20KTH
PV input parameter			
Max. input power	20kW	30kW	30kW
Max. input voltage		1000Vdc	
Rated input voltage		650Vdc	
Start-up voltage		180Vdc	
Min. operating voltage		160Vdc	
MPPT voltage range		160~1000Vdc	
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		
AC input and output parameter (grid)			
Max. apparent power of grid	15kVA	22.5kVA	30kVA
Max. input current	22.8A	34.2A	45.6A
Input voltage range	320~480Vac		
Input frequency range	50±5Hz/60±5Hz		
Rated output power	10kW	15kW	20kW
Max. output apparent power	11kVA	16.5kVA	22kVA
Rated output voltage	3/N/PE, 380Vac/400Vac		
Rated output frequency	50 Hz/60Hz		
Rated output current	15.2A/14.4A	22.8A/21.7A	30.4A/28.9A
Max. output current	16.7A/15.8A	25.1A/23.8A	33.5A/31.8A
Power factor	>0.99 (0.8 leading~0.8 lagging)		
THDI	≤3% (@ rated power)		
Generator input			
Max. input power	10kW	15kW	20kW
Max. input current	15.2A	22.8A	30.4A
AC output (back-up load)			
Rated output power	10kW	15kW	20kW
Max. apparent power	10kVA	15kVA	20kVA
Rated output voltage	3/N/PE, 380Vac/400Vac		
Rated output frequency	50Hz/60Hz		
Rated output current	15.2A/14.4A	22.8A/21.7A	30.4A/28.9A
Max. output current	15.2A	22.8A	30.4A
THDV	≤3% (linear load)		
Switching time	≤10ms		
Efficiency			
Maximum efficiency	98.2%		
MPPT efficiency	99.9%		
Protections			
Protections	Over/under voltage, over/under frequency, overload, output short-circuit, over-temperature, residual current monitoring unit, output overcurrent, insulation resistance detection, anti-islanding, surge protection		
Surge protection	DC Type II/AC Type II		
Others			
Dimensions (WxHxD)(mm)	500x660x270		
Packaged dimensions (WxHxD)(mm)	510x860x370		
Net weight (kg)	41		
Gross weight (kg)	47		
Parallel operation	Supports 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
Installation method	Wall-mounted		
Standards			
Grid connection	VDE 0126, EN50549, DIN VDE 0124-100:2020, VDE-AR-N 4105:2018		
Safety regulation	IEC/EN 62109-1/-2		
EMC	EN 61000-6-1/-2/-3/-4		