

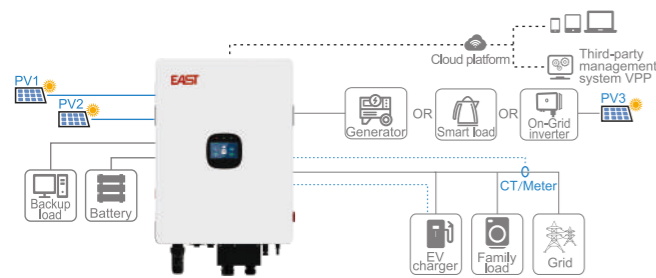
Residential Hybrid Inverter EAHI10-20KTH

Three phase

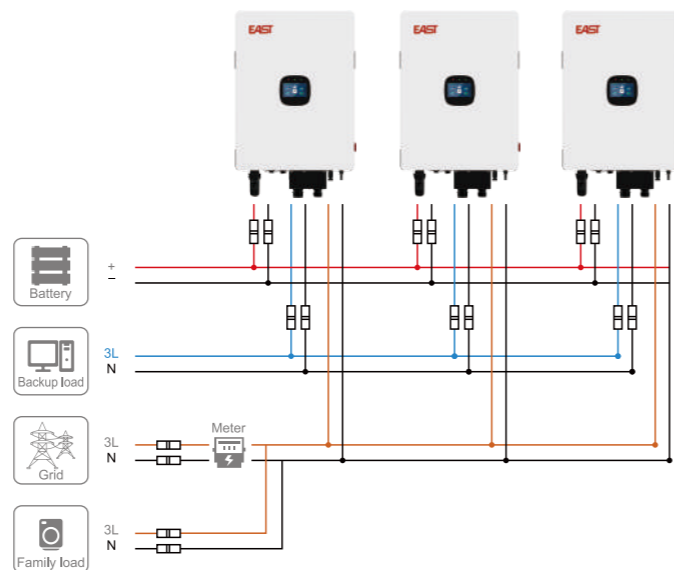


- Supports PV inverter, generators, and microgrid inputs, suitable for new and modified photovoltaic and microgrid systems
- Mains and PV input power oversized at a ratio of 1.5, resulting in a more stable system operation
- App real-time monitoring, supports online remote OTA upgrades, easy operation and maintenance
- Support RSD and AFCI optional configurations to provide safer protection for the system

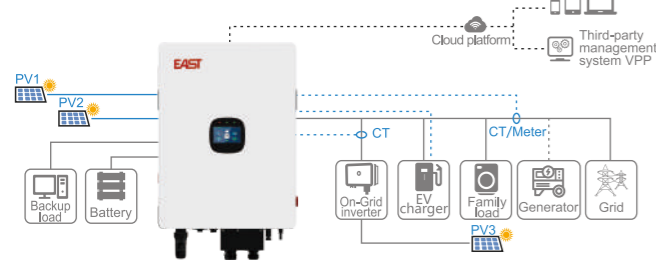
Typical application 1



Parallel application



Typical application 2



Hybrid inverter specification

MODEL	EAHI10KTH	EAHI15KTH	EAHI20KTH
PV input			
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		160~950Vdc	
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			
Battery type		Lithium battery	
Voltage range		150~600Vdc	
Max. charge/discharge current	25A	37.5A	50A
AC input and output(grid)			
Max. apparent power of grid	15kVA	22.5kVA	30kVA
Max. input current	22.8A	34.2A	40.0A
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		50Hz/60Hz	
Rated output current	15.2A/14.4A	22.8A/21.7A	30.4A/29.0A
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(backup)			
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/14.5A	22.8A/21.7A	30.4A/29.0A
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 III		
Others			
Dimensions(W×H×D)(mm)	500×680×270		
Packaged dimensions (W×H×D)(mm)	615×930×370		
Net weight(kg)	45		
Gross weight(kg)	52		
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 V 0124-100:2020, VDE-AR-N 4105:2018		
Safety regulation	IEC/EN 62109-1/-2		
EMC	EN 61000-6-1/-2/-3/-4		