

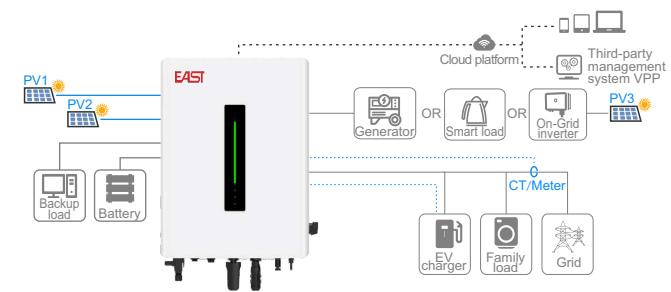
Residential Hybrid Inverter EAHI10-20KTH

Three phase

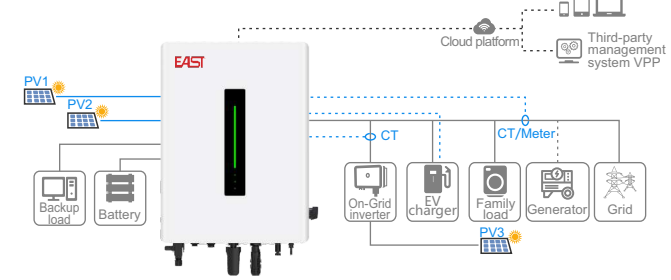


- Supports PV inverter, generators, and microgrid inputs, suitable for new and modified photovoltaic and microgrid systems
- App real-time monitoring, supports online remote OTA upgrades, easy operation and maintenance
- Mains and PV input power oversized at a ratio of 1.5, resulting in a more stable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

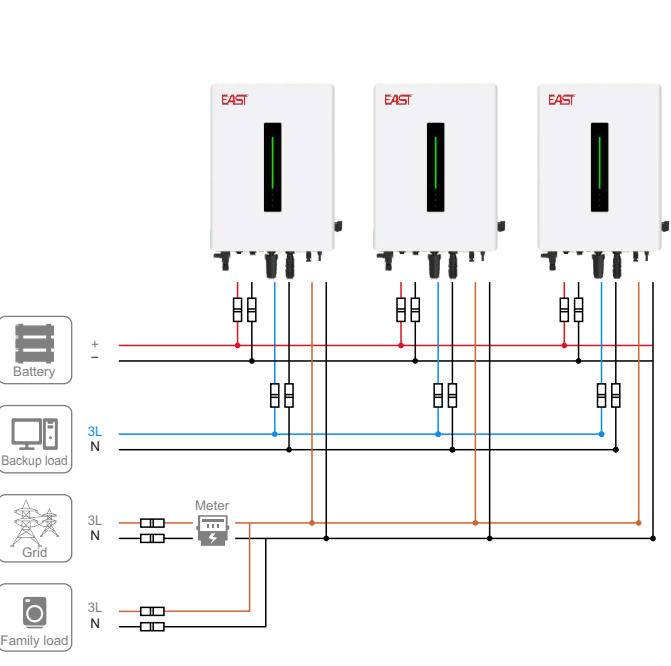
Typical application 1



Typical application 2



Parallel application



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)	615×885×370					
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 V 0124-100:2020, VDE-AR-N 4105:2018					
Safety regulation	IEC/EN 62109-1/-2					
EMC	EN 61000-6-1/-2/-3/-4					