

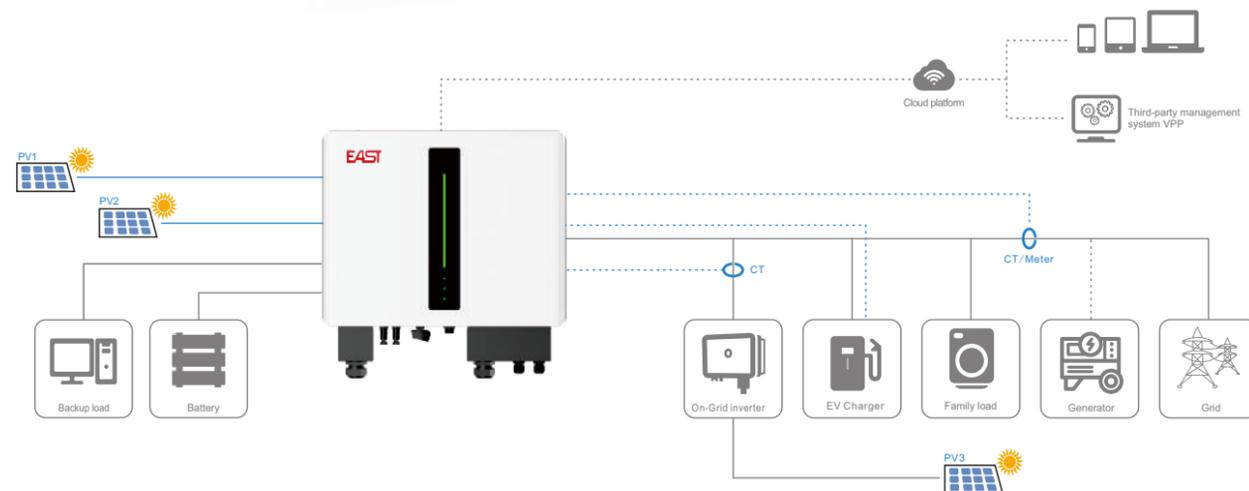
Single-phase Hybrid Inverter

EAHI-3000-SL/EAHI-3600-SL/EAHI-5000-SL/EAHI-6000-SL



- IP66 all-aluminum chassis, adaptable to outdoor environment
- High charge/discharge efficiency, compatible with lithium battery and lead-acid battery
- Flexibly settable charge/discharge time section and power, peak load shaving
- APP real time monitoring, easy maintenance

Typical application



Hybrid inverter specification

Model	EAHI-3000-SL	EAHI-3600-SL	EAHI-5000-SL	EAHI-6000-SL
PV input parameter				
Max. input power	4680W		6500W	7800W
Max. input voltage			550Vdc	
Rated input voltage			360Vdc	
Start-up voltage			150Vdc	
Min. operating voltage			100Vdc	
MPPT voltage range			100~540Vdc	
Max. input current per MPPT	16A			16A/16A
Max. short-circuit current per MPPT	24A			24A/24A
Number of MPPT	1			2
Number of input strings per MPPT	1			1/1
Battery input parameter				
Battery type			Li-ion, Lead-acid battery	
Voltage range			42~58Vdc	
Max. charge current	66A	75A	100A	100A
Max. discharge current	66A	75A	100A	120A
Charging curve			3 Stages/Equalization	
Lithium battery charging strategy			BMS self-adaption	
AC input parameter(grid)				
Grid type			Single phase(L/N/PE)	
Input voltage range			184~276Vac	
Input frequency range			50±5Hz/60±5Hz	
Max. input current	21.8A	26.2A	36.5A	40A
AC output parameter(grid)				
Rated output power	3000W	3600W	5000W	6000W
Max. apparent output power	3000VA	3600VA	5000VA	6000VA
Grid system mode			Single phase(L+N+PE)	
Rated output voltage			220Vac/230Vac	
Rated output frequency			50Hz/60Hz	
Rated output current	13.6A/13.0A	16.4A/15.7A	22.7A/21.8A	27.3A/26.1A
Max. output current	13.6A	16.4A	22.7A	27.3A
Power factor			>0.99(0.8 leading~0.8 lagging)	
THDI			≤3%(@Rated Power)	
AC output parameter(back-up)				
Rated output power	3000W	3600W	5000W	6000W
Max. apparent power	3000VA	3600VA	5000VA	6000VA
Output system mode			Single phase(L+N+PE)	
Rated output voltage			230Vac(208/220/240Vac settable)	
Rated output frequency			50Hz/60Hz	
Rated output current	13.0A	15.7A	21.8A	26.1A
Max. output current	14.4A	17.3A	24.0A	28.8A
THDV			≤3%(linear load)	
Transfer time			≤10ms	
Efficiency				
Max. efficiency			97.8%	
MPPT efficiency			99.9%	
Protections				
Protections	Over/under voltage, over/under-frequency, over load, output short-circuit, over temperature, residual current monitoring unit, output over-current, insulation resistance, anti islanding, surge protection			
Output overvoltage protection	DC Type III/AC Type III			
Others				
Communications	RS485, WIFI			
Dimensions(WxHxD)(mm)	548x440x197			
Net weight(kg)	21.4			24.8
Topology	High frequency isolation(for battery)			
IP rating	IP66			
Operating temperature	-25°C~+60°C(>45°C derating)			
Cooling mode	Natural cooling			
Altitude	4000m			
Noise level at 1 m	≤25dB			
Installation mode	Wall-mounted			
Standards				
Safety regulation	IEC/EN 62109-1/-2, AS62109			
EMC	EN 61000-6-1/-2/-3/-4			
Grid connection	CEI 0-21, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018, AS4777.2, NRS097-2-1, EN 50549-1			

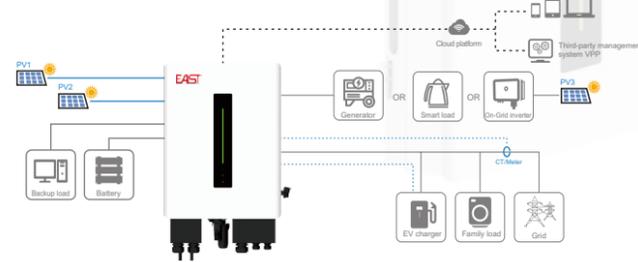
Single-phase Hybrid Inverter

EAH10KSL / EAH12KSL

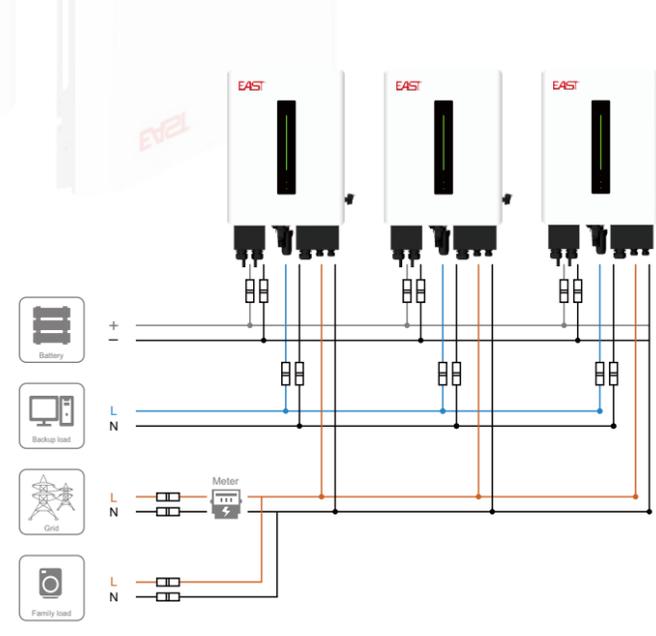


- Supports PV inverter, generators, and microgrid inputs, suitable for new and modified photovoltaic and microgrid systems
- Supports multiple inverters with EPS output in parallel, and can be expanded to small industrial and commercial applications
- Support RSD and AFCI optional configurations to provide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

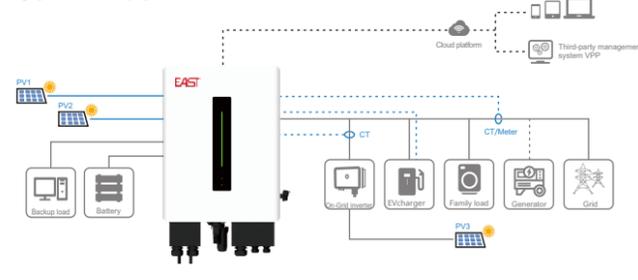
Typical application 1



Parallel application



Typical application 2



Hybrid inverter specification

Model	EAH10KSL	EAH12KSL
PV input parameter		
Max. input power	18kW	18kW
Max. open-circuit voltage		550Vdc
Rated input voltage		360Vdc
Start-up voltage		150Vdc
Min. operating voltage		100Vdc
MPPT voltage range		100~540Vdc
Full power MPPT voltage range		300~500V
Max. input current per MPPT		30A/30A
Max. short-circuit current per MPPT		40A/40A
MPPT quantity		2
Number of input strings per MPPT		2/2
Battery input parameter		
Battery type		Li-ion battery/Lead acid battery
Voltage range		42~58Vdc
Max. charge/discharge current	180A/180A	250A/250A
AC input and output parameter(grid)		
Max. apparent power of grid	15kVA	18kVA
Max. input current	68.2A	81.8A
Input voltage range		184~276Vac
Input frequency range		50±5Hz
Rated output power	10kW	12kW
Max. output apparent power	10kVA	12kVA
Rated output voltage		1/N/PE, 220Vac/230Vac
Rated output frequency		50Hz
Rated output current	45.5A/43.5A	54.5A/52.2A
Max. output current	45.5A	54.5A
Power factor		>0.99(0.8 leading~0.8 lagging)
THDI		≤3%(@ rated power)
Generator input		
Max. input power	10kW	12kW
Max. input current	45.5A	54.5A
AC output parameter(back-up)		
Rated output power	10kW	12kW
Max. apparent power	10kVA	12kVA
Rated output voltage		1/N/PE, 220Vac/230Vac
Rated output frequency		50Hz
Rated output current	45.5A/43.5A	54.5A/52.2A
Max. output current	45.5A	54.5A
THDV		≤3%(linear load)
Switching time		≤20ms
Efficiency		
Maximum efficiency		97.8%
MPPT efficiency		99.9%
Protections		
Protections	Over/under voltage, over/under-frequency, overload, output short-circuit, over temperature, residual current monitoring unit, output over-current, insulation resistance detection, anti-islanding, surge protection	
Surge protection	DC Type II/AC Type III	
Others		
Dimensions(WxHxD)(mm)	450x600x270	
Weight(kg)	45	
Topology	High frequency isolation(for battery)	
IP rating	IP66	
Operating temperature	-25°C~+60°C	
Cooling mode	Smart cooling	
Altitude	3000m	
Noise level(1m)	≤55dB	
Installation method	Wall-mounted	
Standards		
Safety regulation	IEC/EN 62109-1/-2, AS62109	
EMC	EN 61000-6-1/-2/-3/-4	
Grid connection	NRS097-2-1:2017	

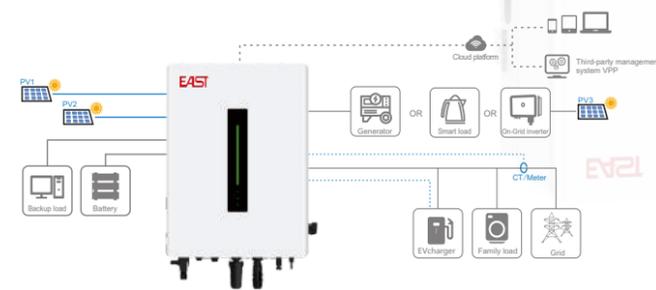
Three-phase Hybrid Inverter

EAHI10KTH/EAHI15KTH/EAHI20KTH

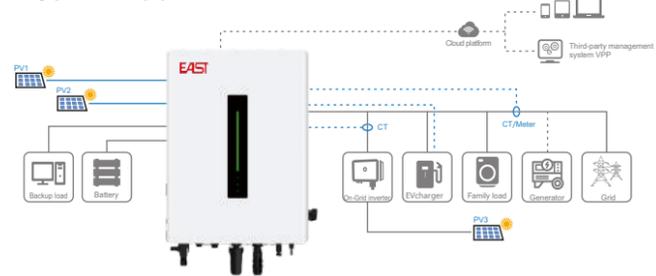


- Supports PV inverter, generators, and microgrid inputs, suitable for new and modified photovoltaic and microgrid systems
- Mains and PV input power oversized at a ratio of 1.5, resulting in a more stable system operation
- App real-time monitoring, supports online remote OTA upgrades, easy operation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

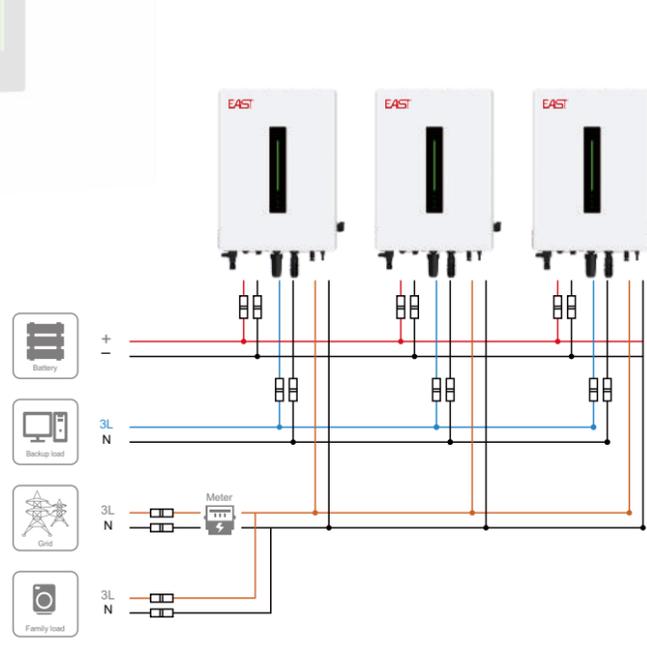
Typical application 1



Typical application 2



Parallel application



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		160~950Vdc	
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	25A	37.5A	50A
AC input and output parameter(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		50 Hz/60Hz	
Rated output current	15.2A/14.5A	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 parameter(back-up)			
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(WxHxD)(mm)	500x680x270		
Packaged dimensions(WxHxD)(mm)	615x885x370		
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		

Single-phase Off-Grid Inverter

GF3K24H/GF3K24L/GF5K48H/GF5K48L

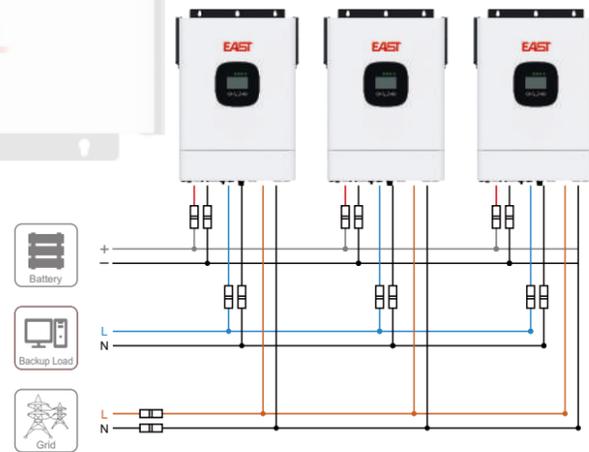


- Flexible setting of multiple working modes according to preferences
- Real time remote monitoring system via WiFi module easy operation and maintenance
- Graphical LCD and keypad design, user-friendly operation interface
- High charge/discharge efficiency, compatible with lithium battery and lead-acid battery

Typical application



Parallel application



Inverter specification

Model	GF3K24H	GF3K24L	GF5K48H	GF5K48L
Rated power	3000VA/3000W		5000VA/5000W	
Parallel function	No		Yes, 6 units max	
AC input				
Rated input voltage	230VAC	120VAC	230VAC	120VAC
Input voltage range	170~280VAC PC 90~280VAC home application	90~140VAC	170~280VAC PC 90~280VAC home application	90~140VAC
Rated input frequency	50/60Hz self-adapting			
Input frequency range	40~65Hz			
Rated input current	20A	36A	32A	61.33A
Max. input current	30A	40A	40A	80A
AC output				
Rated AC output voltage	230VAC	120VAC	230VAC	120VAC
Output settable voltage	220V/230V/240V	100V/110V/120V	220V/230V/240V	100V/110V/120V
Output settable frequency	50Hz/60Hz			
Rated AC output current	13.05A	25.00A	21.70A	41.67A
Overload capacity	Inverter output: 10s@110%~150% rated load; 5s@≥150% rated load; 100ms@≥200% rated load Power grid output: 5s@≥150% rated load; 100ms@≥200% rated Load			
THDU	<5%, linear load; <10%, non-linear load			
Efficiency(peak value)	93%			
Surge power	6000VA, 5 cycles		10000VA, 5 cycles	
Switching time	10ms(Typical)			20ms
Battery				
Battery type	Lead-acid battery/lithium battery			
Rated voltage	24VDC		48VDC	
Charging voltage	27VDC(default), 24~29.2VDC settable		54VDC(default), 48~58.4VDC settable	
Overcharge protection voltage	30.2VDC		60.5VDC	
Rated discharge current	130A		113.7A	
PV/AC charging				
PV charging			MPPT	
Max. PV plate power	4000W		6000W	
Max. PV plate open circuit voltage			450VDC	
MPPT operation range voltage			120~430VDC	
Max. PV input current	18A		27A	
Max. PV charging current			100A	
Max. AC charging current			100A	
Max. battery charging current			100A	
Others				
Dimension(WxDxH)(mm)	322x122x390		342x122x471	
Net weight(kg)	9		11	
Operating environment	-10°C~50°C			
IP rating	IP20			
Protections	Input over/under voltage protection, input over/under frequency protection, output overload, output short-circuit, radiator over-temperature protection, fan fault detection etc.			
Communication interfaces	USB/RS485, dry contact, WiFi(optional)		USB/RS232/RS485, dry contact, WiFi/WiFi(optional)	
			USB/RS485, dry contact, WiFi(optional)	