

Off-Grid Inverter

GF3K24H/GF3K24L/GF5K48H/GF5K48L

Single phase



Flexible setting of multiple working modes according to preferences

Graphical LCD and keypad design, user-friendly operation interface

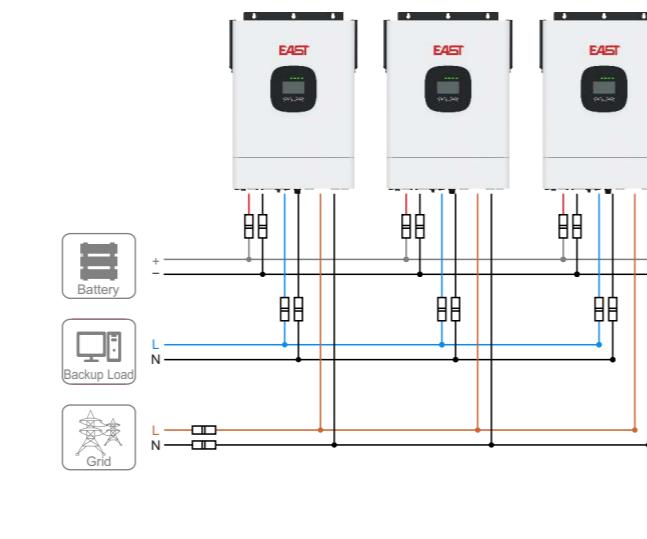
Real time remote monitoring system via WiFi module, easy operation and maintenance

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			
THDv	<5%, linear load; <10%, non-linear load			
Efficiency(peak value)	93%			
Surge power	6000VA, 5 cycles			10000VA, 5 cycles
Switching time			10ms(Typical)	
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(W×D×H)(mm)	322×122×390		342×122×471	332×142×420
Net weight(kg)	9		11	12
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 overtemperature protection, fan fault detection etc.			
Communication interfaces	USB/RS485, dry contact, WiFi(optional)	USB/RS232/RS485, dry contact, WiFi(optional)	USB/RS485, dry contact, WiFi(optional)	