



# Off-Grid Inverter


## GF3K24H/GF3K24L/GF5K48H/GF5K48L


Single phase



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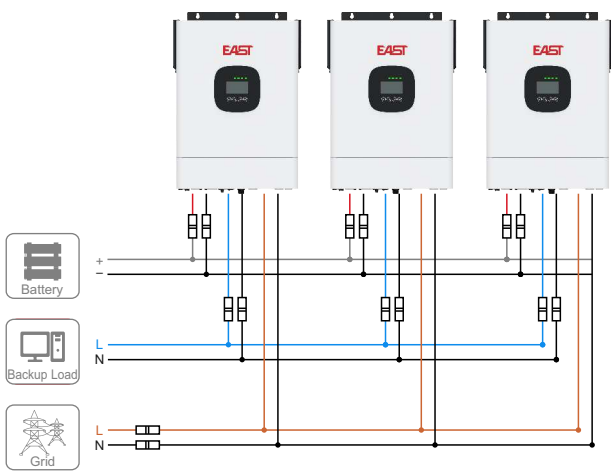
Graphical LCD and keypad design, user-friendly operation interface
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High charge/discharge efficiency, compatible with lithium battery and lead-acid battery

### 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<br>90~280VAC home application  | 90~140VAC      | 170~280VAC PC<br>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<br>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)<br>24~29.2VDC settable  |                | 54VDC(default)<br>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) |