Future Green
Technology

OFF-GRID

OFF GRID SOLAR SYSTEM
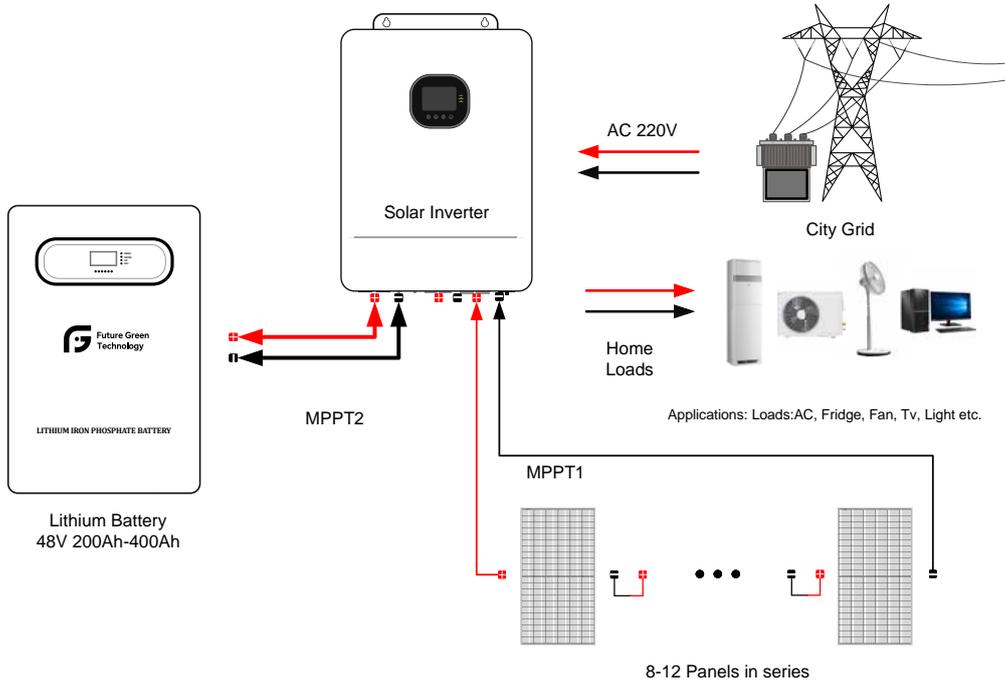
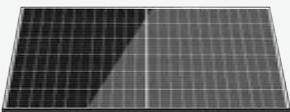FG-6KW-OFF **EU Voltage**

# FG-6KW-OFF

(Residential Off Grid Solar System)



Solar Inverter

AC 220V

City Grid

Home Loads

Applications: Loads:AC, Fridge, Fan, Tv, Light etc.

MPPT2

MPPT1

Lithium Battery
48V 200Ah-400Ah

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LITHIUM IRON PHOSPHATE BATTERY

8-12 Panels in series

## SOLAR SYSTEM KIT



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SOLAR POWER SYSTEM

www.futuregreenbattery.com

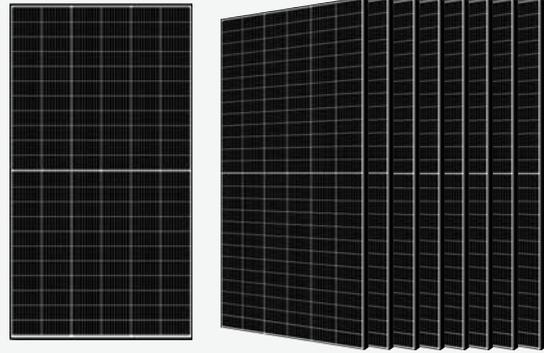| Solar Panel | Lithium Battery | Solar Inverter | Wifi Monitor |
| --- | --- | --- | --- |
| PV Cable | MC4 Connector | Mounting Bracket | DC Switch/AC Switch(Optional) |

Solar Inverter

PV Combiner Box

## PV Module

· Adopting the 182*210mm N-Type TOPCon cells with the highest efficiency
· Mechanical load tests including wind load 2400Pa and snow load 5400Pa done by TUV
· Ensure the attenuation probability caused by PID phenomenon is minimized
· Strict salt spray and ammonia corrosion test by TUV

| Parameter | |
| --- | --- |
| Testing Condition | STC |
| Maximum Power(Pmax/W) | 620W |
| Open Circuit Voltage(Voc/V) | 49.55 |
| Short Circuit Current(Isc/A) | 15.93 |
| Voltage at Maximum Power(Vmp/V) | 41.06 |
| Current at Maximum Power(Imp/A) | 15.10 |
| Module Efficiency(%) | 22.95 |

**620W**
TOPCon Bifacial Dual Glass Solar Panel

## Lithium Battery

**48V 200Ah**
Integrated Casters LiFePO$_4$ Battery

· High Specific Energy
· Support Parallel Operation
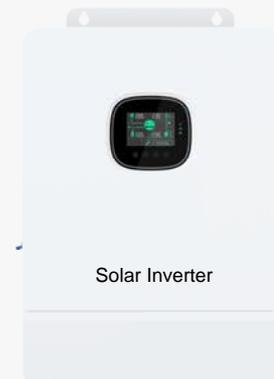· Easy Installation
· Long Cycle Life

| Parameter | |
| --- | --- |
| Nominal Capacity | 200Ah |
| Nominal Voltage | 48V |
| Max.Charging Current | 100A |
| Max.Discharging Current | 100A |

## Inverter

· Colorful touch LCD, IP65 protection degree
· AC couple to retrofit existing solar system
· 6 times periods for battery charging/discharging
· Support storing energy from diesel generator

| Parameter | |
| --- | --- |
| AC Output Data | |
| Rated Output Power | 12000W |
| Rated Output Voltage/Frequency | 230Vac, 50Hz/60Hz |
| Battery Input Data | |
| Battery Type | Lead-acid or Lithium-Iron |
| Battery Voltage Range(V) | 40-60 |
| PV String Input Data | |
| No. of MPP Trackers | 1 |
| MPPT Voltage Range(V) | 90-500 |

Solar Inverter

**GD6048MH**
Inverter

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