



# Parvaneh Trading

بازرگانی پروانه  
وارد کننده تخصصی  
تجهیزات برق خورشیدی در ایران

[www.parvanehco.com](http://www.parvanehco.com)  
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**Go Green**  
Solar Power Solutions

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**Go Green**  
Solar Power Solutions



### Our Vision:

To transform our advanced technology into added value for our customers.

Our comprehensive off grid solutions ensure that we lead the renewable energy movement for a cleaner, greener environment in the MENA regions.

### Our Mission:

To support residential, commercial and industrial and reduced energy costs and emissions in remote areas.

## ABOUT US



Go Green Solar Power Solutions factory is headquartered in China, with overseas warehouses in Dubai and Saudi Arabia under the management of Joyway Electricals Trading L.L.C.

We specialize in the production of Lithium batteries, utilizing advanced technology to manufacture and assemble products for the Middle East and Africa. Our company also offers OEM services to other businesses.

With a large inventory and efficient logistics, we ensure timely delivery of high-quality products to various sectors, including government, hospitality, construction, and more.

GO GREEN – Solar Power Solutions provides off-grid solar energy solutions for remote areas, offering self-sufficient and ecological power sources for both domestic and commercial applications.



# 01






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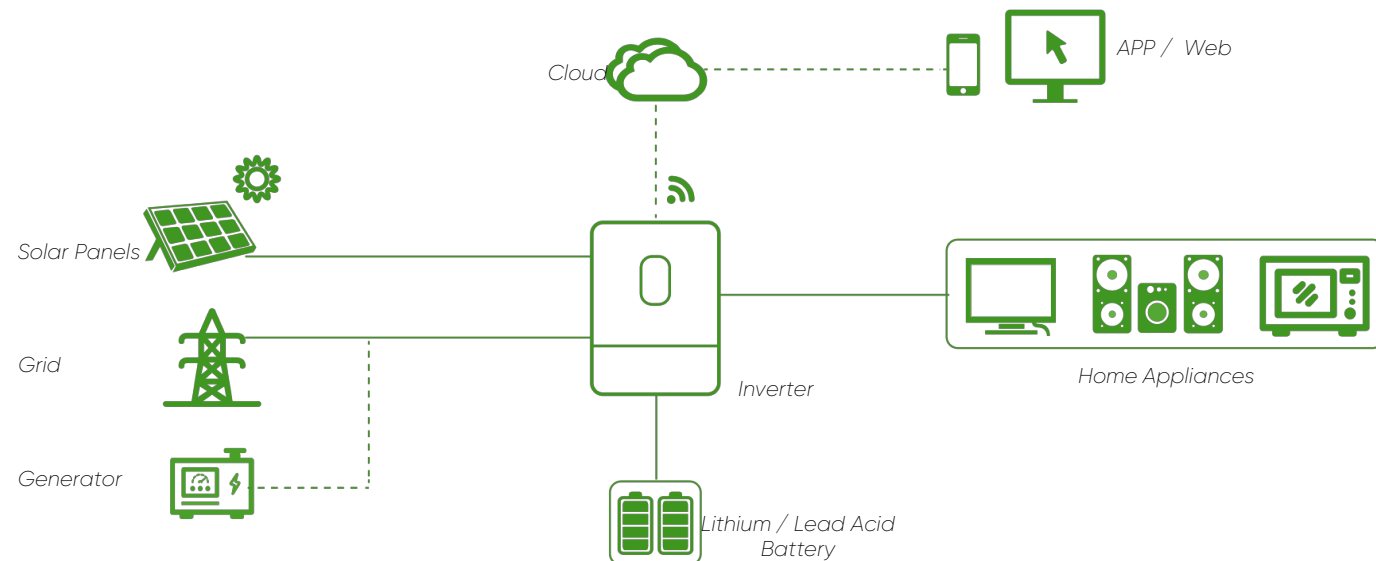
**HYBRID INVERTERS**



# GGIV 2000

## Single Phase Hybrid Inverter






-  Pure Sine Wave
-  Detachable Dust Cover
-  Lithium Battery Activation
-  Wide MPPT Range 20-100V
-  LCD Display
- BMS** Support Lithium/Lead-acid Battery

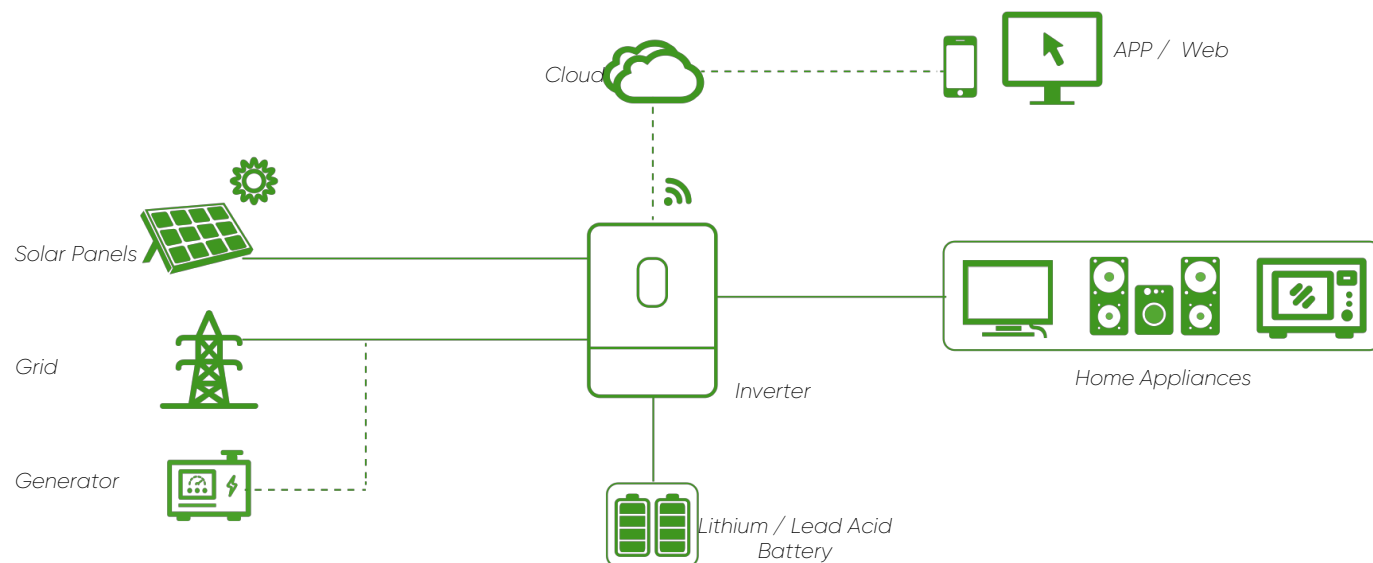


Model	GGIV 2000
<b>AC Input</b>	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
<b>AC Output</b>	
Rated Capacity (kVA)	2.0
Peak Power (kVA)	2.4
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	90%@12VDC
Parallel Quantity	NA
<b>Charger (PV / AC)</b>	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	14A / 1000W
MPPT Range@Operating Voltage (VDC)	20~100
Max PV Open Circuit Voltage (VDC)	125
Max PV Charge Current (A)	60
Max AC Charge Current (A)	40
Max. Charge Current (PV + AC) (A)	100
<b>Battery</b>	
Rated Voltage (VDC)	12
Floating Charge Voltage (VDC)	13.8
Overcharge Protection (VDC)	15
Battery Type	Lithium and Lead-acid
<b>Interface</b>	
HMI	LCD
Interface	RS485 / USB
Monitoring	NA
<b>General Data</b>	
Ingress Protection	IP20
Operating Temperature	-10 °C~50 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C~60 °C
Net Weight (kg)	3.6
Dimensions (W*H*D)	330*226*92mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

# GGIV 4000

## Single Phase Hybrid Inverter

-  Pure Sine Wave
-  Detachable Dust Cover
-  Lithium Battery Activation
-  Wide MPPT Range 20-100V
-  LCD Display
- BMS** Support Lithium/Lead-acid Battery








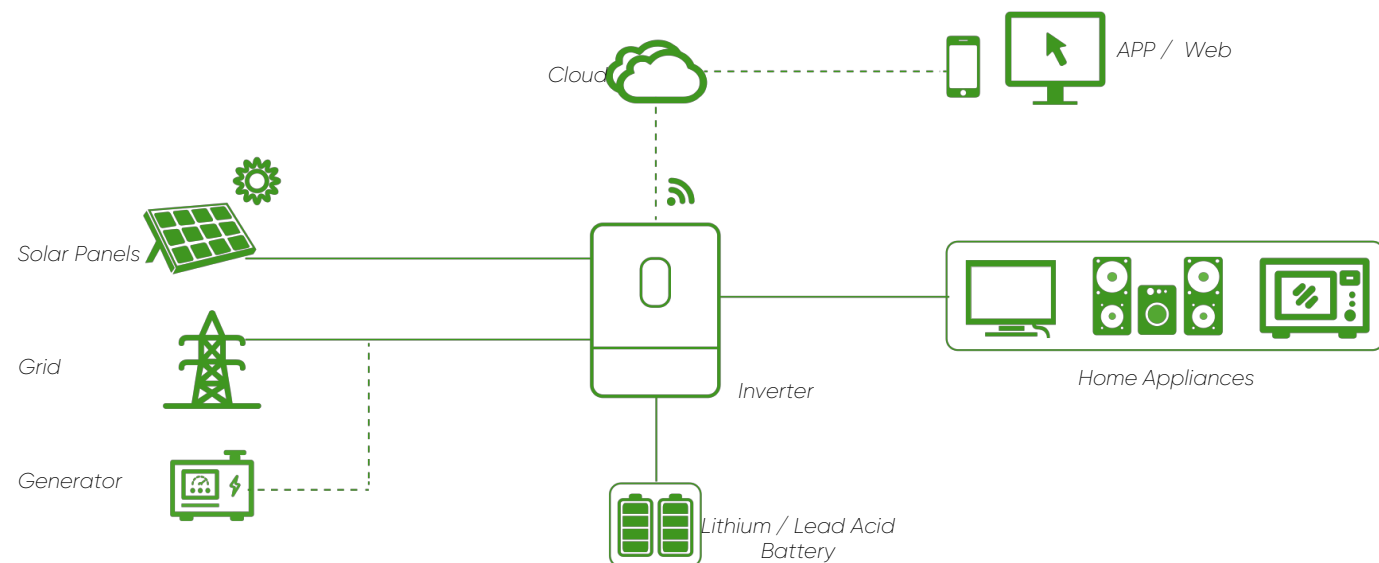
Model	GGIV 4000
<b>AC Input</b>	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
<b>AC Output</b>	
Rated Capacity (kVA)	4.0
Peak Power (kVA)	7.2
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@ 102%~110% load; 10s@ 110%~130% load; 3s@ 130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	92.7%@24VDC
Parallel Quantity	NA
<b>Charger (PV / AC)</b>	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	18A / 5000W
MPPT Range@Operating Voltage (VDC)	40~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	100
Max AC Charge Current (A)	100
Max. Charge Current (PV + AC) (A)	100
<b>Battery</b>	
Rated Voltage (VDC)	24
Floating Charge Voltage (VDC)	27
Overcharge Protection (VDC)	30.5
Battery Type	Lithium and Lead-acid
<b>Interface</b>	
HMI	LCD
Interface	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi (Optional)
<b>General Data</b>	
Ingress Protection	IP21
Operating Temperature	-10 °C~ 50 °C
Relative Humidity	5% ~95% (Non-condensing)
Storage Temperature	-15 °C~ 60 °C
Net Weight (kg)	6.4
Dimensions (W*H*D)	490*306*115mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

# GGIV 6000

## Single Phase Hybrid Inverter








-  Pure Sine Wave
-  Detachable Dust Cover
-  Lithium Battery Activation
-  Wide MPPT Range 20-100V
-  LCD Display
- BMS** Support Lithium/Lead-acid Battery

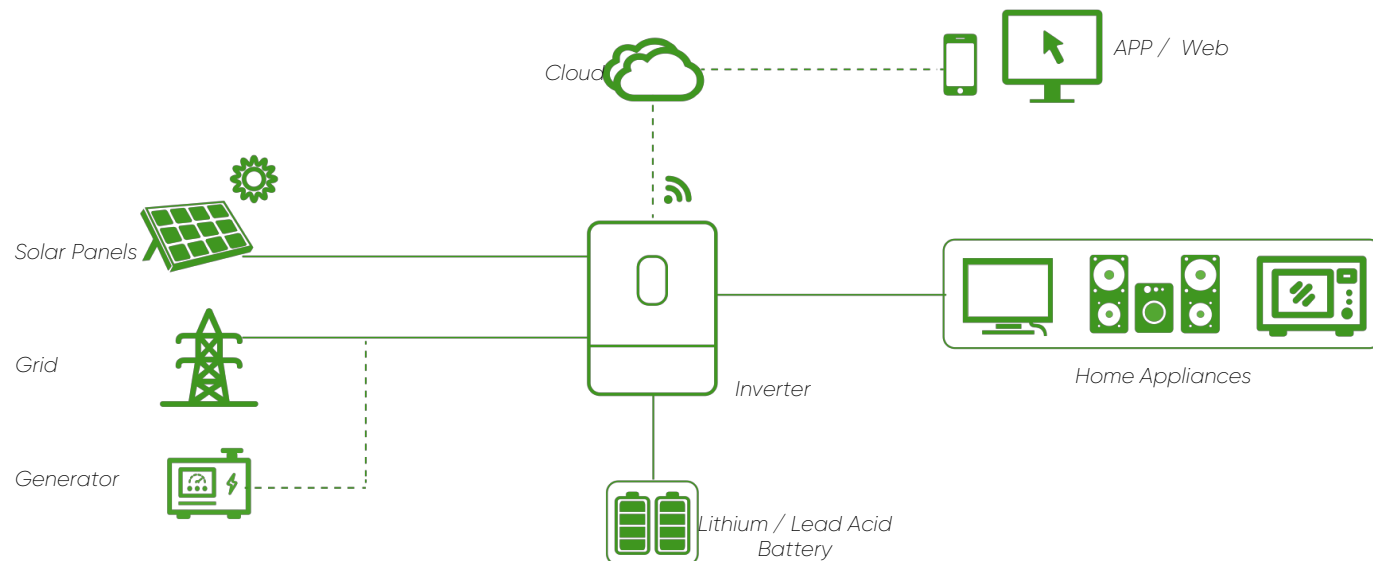


Model	GGIV 6000
<b>AC Input</b>	
Rated Input Voltage (VAC)	208 /220 /230 /240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 /60 (Auto Adaptive)
<b>AC Output</b>	
Rated Capacity (kVA)	6.0
Surge Power (kVA)	10
Voltage (VAC)	208 /220 /230 /240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) /10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	93%@48VDC
Parallel Quantity	9
<b>Charger (PV / AC)</b>	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	18A /6000W
MPPT Range@Operating Voltage (VDC)	120~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	80
Max AC Charge Current (A)	80
Max. Charge Current (PV + AC) (A)	80
<b>Battery</b>	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
<b>Interface</b>	
HMI	LCD
Interface	RS485 /RS232 /USB /Dry Contact
Monitoring	WiFi (Optional)
<b>General Data</b>	
Ingress Protection	IP21
Operating Temperature	-10 °C~ 50 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C~ 60 °C
Net Weight (kg)	9.5
Dimensions (W*H*D)	510*306*115mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

# GGIV 8000

## Single Phase Hybrid Inverter

-  Pure Sine Wave
-  Detachable Dust Cover
-  Lithium Battery Activation
-  Wide MPPT Range 20-100V
-  LCD Display
- BMS** Support Lithium/Lead-acid Battery



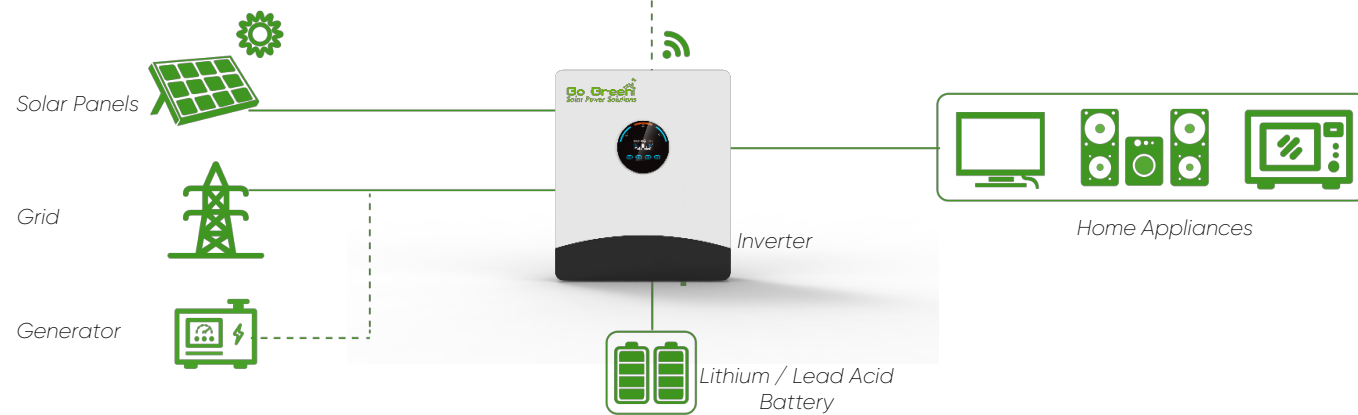
Model	GGIV 8000
<b>AC Input</b>	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
<b>AC Output</b>	
Rated Capacity (kVA)	8.0
Surge Power (kVA)	12
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity(Battery Mode)	10min@102%~120%Load, 1min@120%~150%Load 10S@150%~200%Load, 5s@>200%Load
Max. Efficiency (Battery Mode)	93%@48VDC
Parallel Quantity	NA
<b>Charger (PV / AC)</b>	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	28A / 9000W
MPPT Range@Operating Voltage (VDC)	60~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max. Charge Current (PV + AC) (A)	120
<b>Battery</b>	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
<b>Interface</b>	
HMI	LCD
Interface	RS485 / USB / Dry Contact / CT / Meter /
Monitoring	WiFi (Optional)
<b>General Data</b>	
Ingress Protection	IP21
Operating Temperature	-10 °C~50 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C~60 °C
Net Weight (kg)	10
Dimensions(W*H*D)	508*338*136.5mm
Max. Operating Altitude	4000m (Derating above 1000m)

# GGIV 1P-12KW

## Single Phase Hybrid Inverter

### Key Features

- IP54 Design
- Pure Sine Wave
- Wide MPPT Operating Range
- Built-In BMS Communication
- Max. 12 Units Parallel



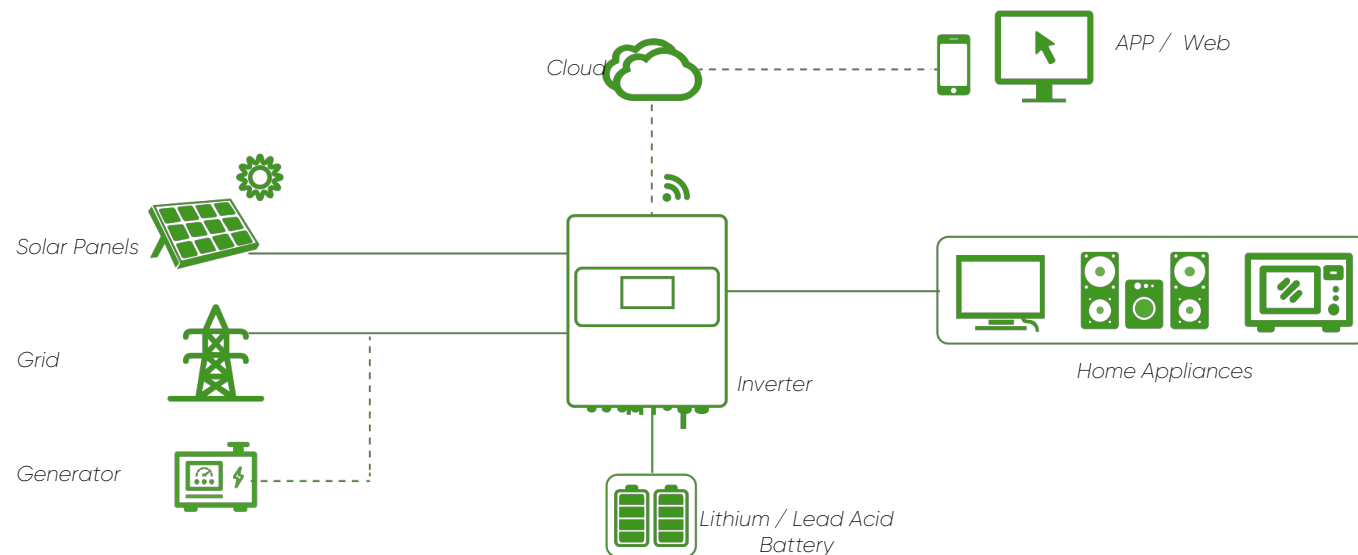
Model	GGIV 1P-12KW
<b>PV (DC Input)</b>	
Recommended Max. PV Input Power	12000W
Max. Input Voltage (Voc)	500V
MPPT Operating Voltage Range	85V-450V (@75V Start Up)
Number of MPPT	2
Max. Number of Input Strings per MPPT	1
Max. Input Current per MPPT	27/27A
Max. Short-circuit current per MPPT	35/35A
<b>Grid (AC Input)</b>	
Max. Input Power	16000W
Max. Input Current	90A
Rated Grid Voltage	220/230/240Vac
Rated Grid Frequency	50/60Hz
Acceptable range	170-280Vac (For UPS); 90-280Vac (For Home Appliances)
<b>Battery Parameters (Bidirection)</b>	
Battery Type	LiFePO4 / Lead Acid
Battery Voltage Range	40~60Vdc
Rate Battery Voltage	48Vdc
Max. Charge/Discharge Current	210A/230A
BMS Communication Mode	RS485
<b>Back-up Output (AC Output)</b>	
Rated Output Power	12000W/12000VA (Twin Output)
Rate Output Current	54.5A
Rated Output Voltage/Frequency	220/230/240Vac 50/60Hz
Parallel Capacity	Max. 12 Units
Surge Power	24000VA 5s
THDv\ (@ linear load)	< 3 %
Switching Time	10ms Typical (For UPS); 20ms (For Home Appliances)
<b>Efficiency</b>	
Peak Efficiency	98.00%
Max. MPPT Efficiency	99.90%
<b>Protection</b>	
Inner Protection	✓Output Short-Circuit Protection ✓Output Over-Voltage Protection
Surge Protection	PV: Type III, AC: Type III
IP Rating	IP54
<b>General Parameters</b>	
Operating Temperature Range	-10°C~55°C
Relative Humidity Range	5%~95°C
Max. Operating Altitude	> 2000m Derating
Standby Self-Consumption	< 20W
Installation Type	Wall Mounted
Cooling Mode	Fan Cooling
Communication	RS232 / RS485 / Dry Contact / WI-FI
Display	LCD
<b>Mechanical Specifications</b>	
Inverter Dimensions (L*W*H) (mm)	630*535*125
Net Weight (kg)	27
Shipping Dimensions (L*W*H) (mm)	745*650*240
Gross Weight (kg)	30

# GGIV 3P-14KW

## Three Phase Hybrid Inverter

### Key Features

- Support battery charging/discharging according to the time setting
- Colorful 7-inch touch LCD, IP65 protection degree
- Support different power inverters parallel connection
- ARC fault detection optional
- 100% unbalanced output, each phase max. output up to 50% rated power
- 20 PCS inverters parallel for off-grid operation
- Support on/off grid mode switch, EPS output
- Independent AC input port for diesel generator
- Support storing energy from diesel generator



Model	GGIV 3P-14KW
<b>Battery Input</b>	
Battery Type	Lead-acid or Li-Ion
Battery Voltage Range (V)	40-60
Max. Charge Current (A)	280
Max. Discharge Current (A)	280
Charging Curve	3 Stages/Equalization
External Temperature Sensor	Optional
Charging Strategy for Li-Ion Battery	Self-adaptation to BMS
<b>PV String Input</b>	
Max. DC Input Power (W)	20,000
PV Input Voltage (V)	650 (160~800)
MPPT Range (V)	200~700
Full Load DC Voltage Range (V)	260~650
Start-up Voltage (V)	160
PV Input Current (A)	26+17
Max. PV Isc (A)	34+20
No. of MPPT Trackers	2
No. of Strings per MPPT Trackers	2+1
<b>AC Output</b>	
Rated AC Output and UPS Power (W)	14,000
Max. AC Output Power (W)	15,400
Peak Power (off grid)	1.8 times of rated power, 10s
AC Output Rated Current (A)	21.1/20.3
Max. AC Current (A)	27.6/26.4
Max. Continuous AC Passthrough (A)	50
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage (V)	50/60Hz,380/400Vac(Triple phase)
Grid Type	Three phase
Current Harmonic Distortion	THD<3%(Linear load<1.5%)
<b>Efficiency</b>	
Max. Efficiency	97.90%
Euro Efficiency	96.90%
MPPT Efficiency	99.90%
<b>Protection</b>	
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection
PV ARC Fault Detection	Optional
Output Over Voltage Protection	DC Type II/AC Type III
<b>General Data</b>	
Operating Temperature Range (°C)	-45~60, >45 Derating
Cooling	Smart Cooling
Noise (dB)	≤45
Communication with BMS	CAN, RS485
Weight (kg)	45
Dimensions (mm)	510Wx630Hx290D
Protection Degree	IP65
Installation Style	Wall-mounted

### Certifications and Standards

**Grid Regulation :** CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699,C10-11

**EMC :** IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4

**Safety Regulation :** IEC/EN62109-1, IEC/EN62109-2

# no2

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**LITHIUM BATTERIES**



# GGESS / 12.8V-100AH

LiFePO4 Battery



Maintenance Free



Grade A Cell



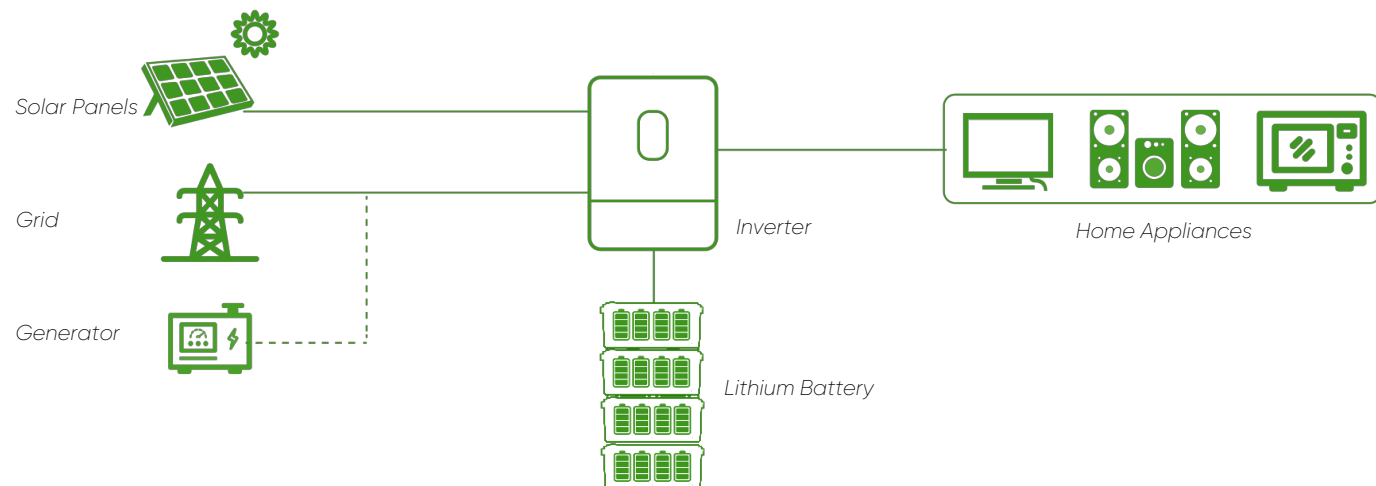
Bluetooth



LCD Screen

**BMS**

Intelligent BMS



Model	12.8V 100Ah
Nominal Capacity	1280Wh
Cell Specifications	LiFePO4
Cell Configuration	4S1P
Charge Cut-off Voltage	14.6V
Discharge Cut-off Voltage	10.8V
Max Charge Voltage	16V
Optimum Charge Current	50A
Max Continuous Charge Current	100A
Max Continuous Discharge Current	100A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0°C-60°C Discharge temperature -20°C -60°C
Cycle Life	>5000 Cycles
Warranty	3 Years
Dimension (W, D, H)	332*172*229mm
Net Weight	10kg
Shelf Material	ABS Plastic Shell
Other Function (Optional)	Bluetooth App
Screen	LCD
Battery Type	Rechargeable Lithium Iron Phosphate

# GGESS / 12.8V-200AH

LiFePO4 Battery



Maintenance Free



Grade A Cell



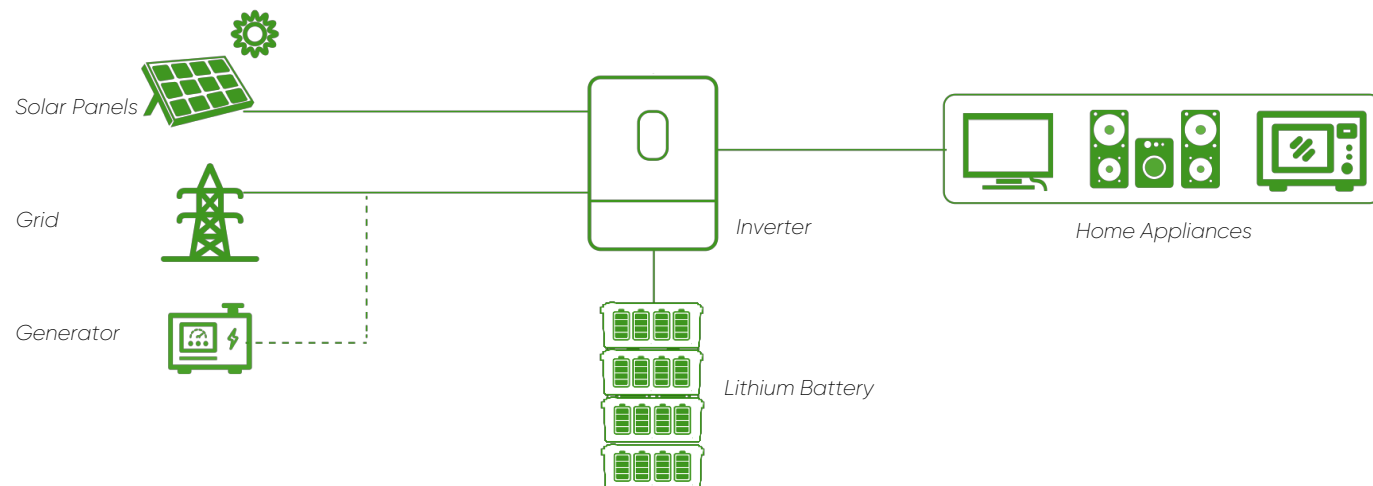
Bluetooth



LCD Screen

**BMS**

Intelligent BMS



Model	12.8V 200Ah
Nominal Capacity	2560Wh
Cell Specifications	LiFePO4
Cell Configuration	4S1P
Charge Cut-off Voltage	14.6V
Discharge Cut-off Voltage	10.8V
Max Charge Voltage	16V
Optimum Charge Current	100A
Max Continuous Charge Current	150A
Max Continuous Discharge Current	150A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0°C-60°C Discharge temperature -20°C -60°C
Cycle Life	>5000 Cycles
Warranty	3 Years
Dimension (W, D, H)	387*206*282mm
Net Weight	18kg
Shelf Material	ABS Plastic Shell
Other Function (Optional)	Bluetooth App
Screen	LCD
Battery Type	Rechargeable Lithium Iron Phosphate

# GGESS / 12.8V-300AH

LiFePO4 Battery



Maintenance Free



Grade A Cell



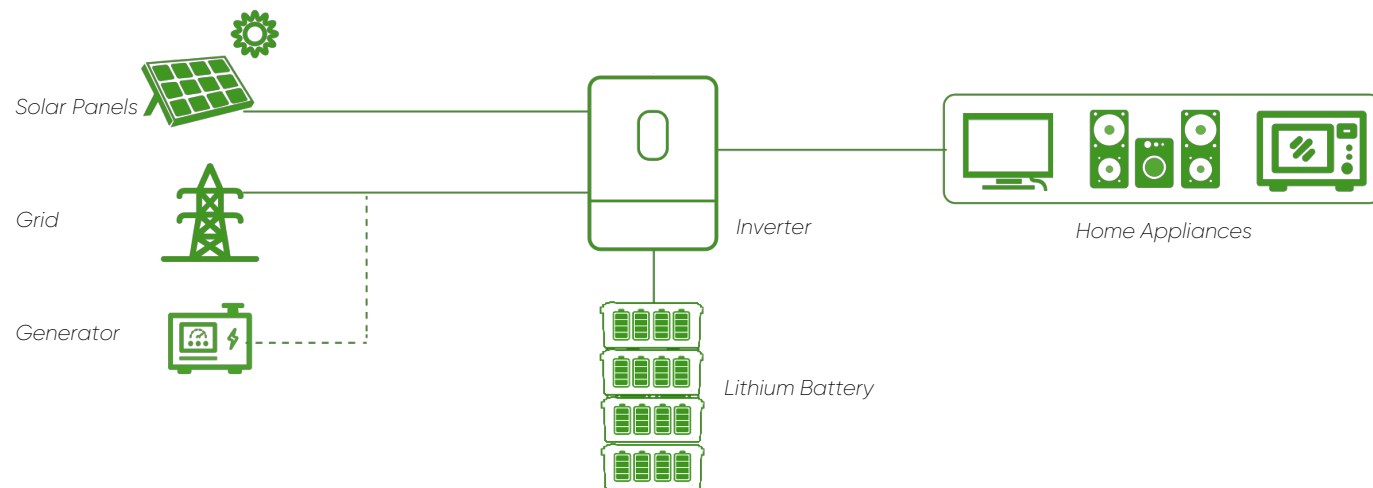
Bluetooth



LCD Screen

**BMS**

Intelligent BMS



Model	12.8V 300Ah
Nominal Capacity	3840Wh
Cell Specifications	LiFePO4
Cell Configuration	4S1P
Charge Cut-off Voltage	14.6V
Discharge Cut-off Voltage	10.8V
Max Charge Voltage	16V
Optimum Charge Current	100A
Max Continuous Charge Current	200A
Max Continuous Discharge Current	200A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0°C-60°C Discharge temperature -20°C -60°C
Cycle Life	>5000 Cycles
Warranty	3 Years
Dimension (W, D, H)	387*206*282mm
Net Weight	25kg
Shelf Material	ABS Plastic Shell
Other Function (Optional)	Bluetooth App
Screen	LCD
Battery Type	Rechargeable Lithium Iron Phosphate

# GGESS / 25.6V-200AH

LiFePO4 Battery



Maintenance Free



Grade A Cell

**BMS**

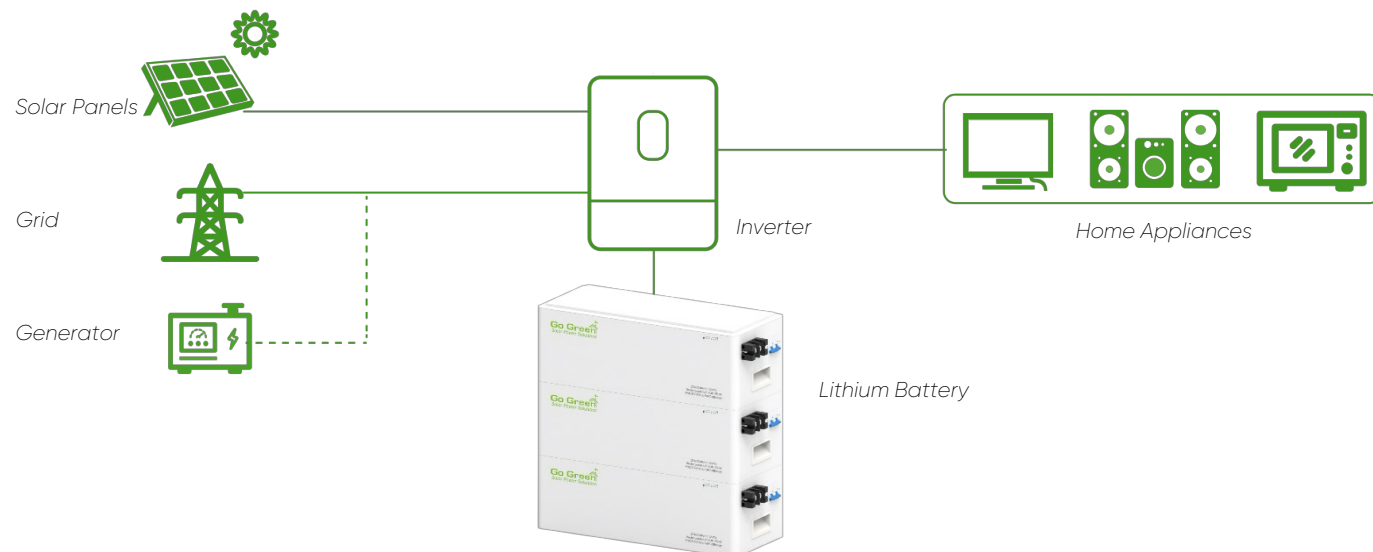
Intelligent BMS



>6000 Cycles



5 Years Warranty



Model	GGESS-5kWh
Energy Capacity	25.6V 200AH
Cell Specifications	LiFePO4
Cell Configuration	8S1P
Charge Cut-off Voltage	29.2V
Discharge Cut-off Voltage	21.6V
Max Discharge Current	100A
Max Charge Current	65A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0°C-60°C Discharge temperature -20°C -60°C
Cycle Life	>6000 Cycles
Warranty	5 Years
Dimension (W,D,H)	678*282*220mm



# GGESS / 25.6V-300AH

LiFePO4 Battery



Maintenance Free



Grade A Cell

**BMS**

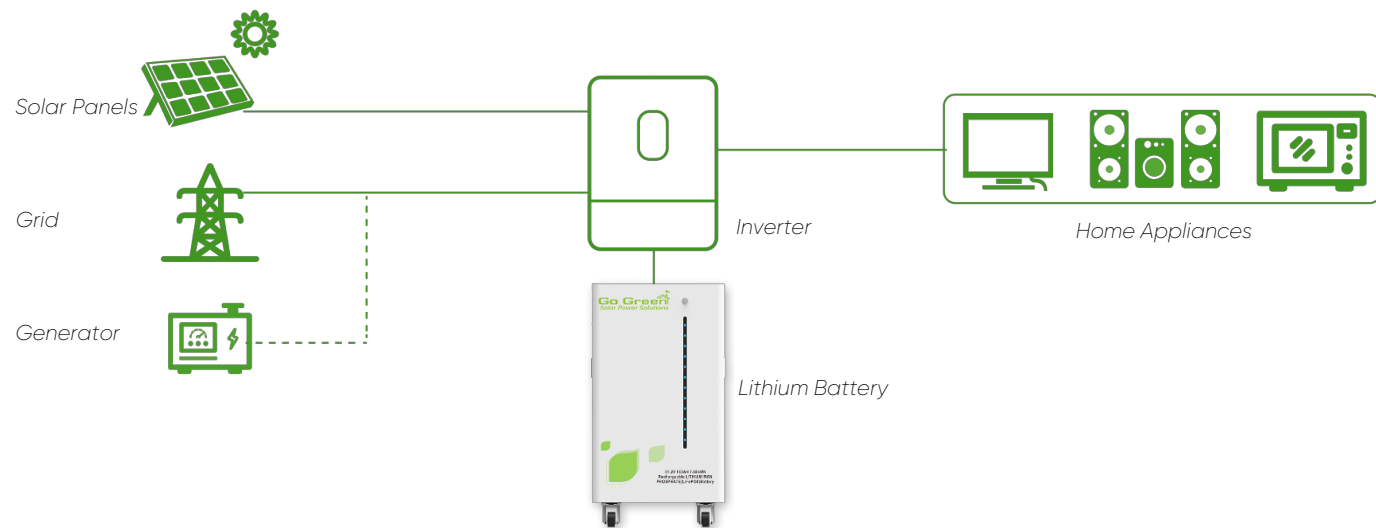
Intelligent BMS



>6000 Cycles



5 Years Warranty



Model	GGESS-7kWh
Energy Capacity	25.6V 300AH
Cell Specifications	LiFePO4
Cell Configuration	8S1P
Charge Cut-off Voltage	29.2V
Discharge Cut-off Voltage	21.6V
Max Discharge Current	150A
Max Charge Current	150A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0°C-60°C Discharge temperature -20°C -60°C
Cycle Life	>6000 Cycles
Warranty	5 Years
Dimension (W,D,H)	380*280*700mm
Communication Interface	RS485, RS232, CAN, UART
Dual Inline-Pin	Up to 6 batteries can be connected in parallel



# GGESS / 51.2V-200AH

LiFePO4 Battery



Maintenance Free



Grade A Cell

**BMS**

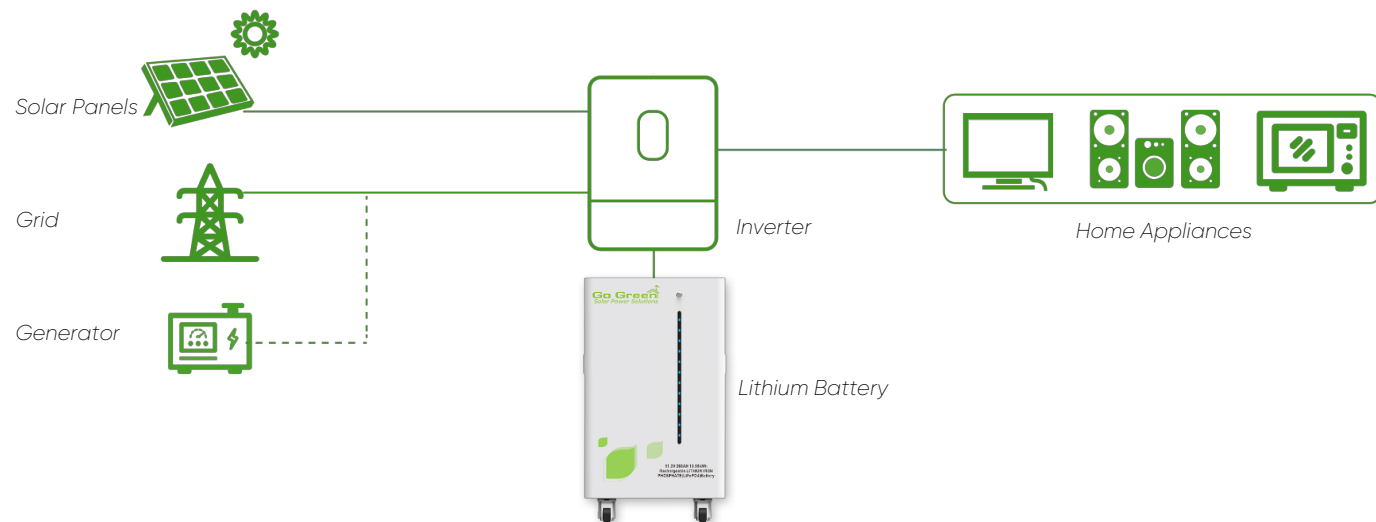
Intelligent BMS



>6000 Cycles



5 Years Warranty



Model	GGESS-10kWh
Energy Capacity	51.2V 200AH
Cell Specifications	LiFePO4
Cell Configuration	16S1P
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	44.8V
Max Discharge Current	150A
Max Charge Current	150A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0°C-60°C Discharge temperature -20°C -60°C
Cycle Life	>6000 Cycles
Warranty	5 Years
Dimension (W,D,H) / Weight	400*280*700mm / 70.6Kg
Communication Interface	RS485, RS232, CAN, UART
Dual Inline-Pin	Up to 6 batteries can be connected in parallel



# GGESS / 51.2V-300AH

LiFePO4 Battery



Maintenance Free



Grade A Cell

**BMS**

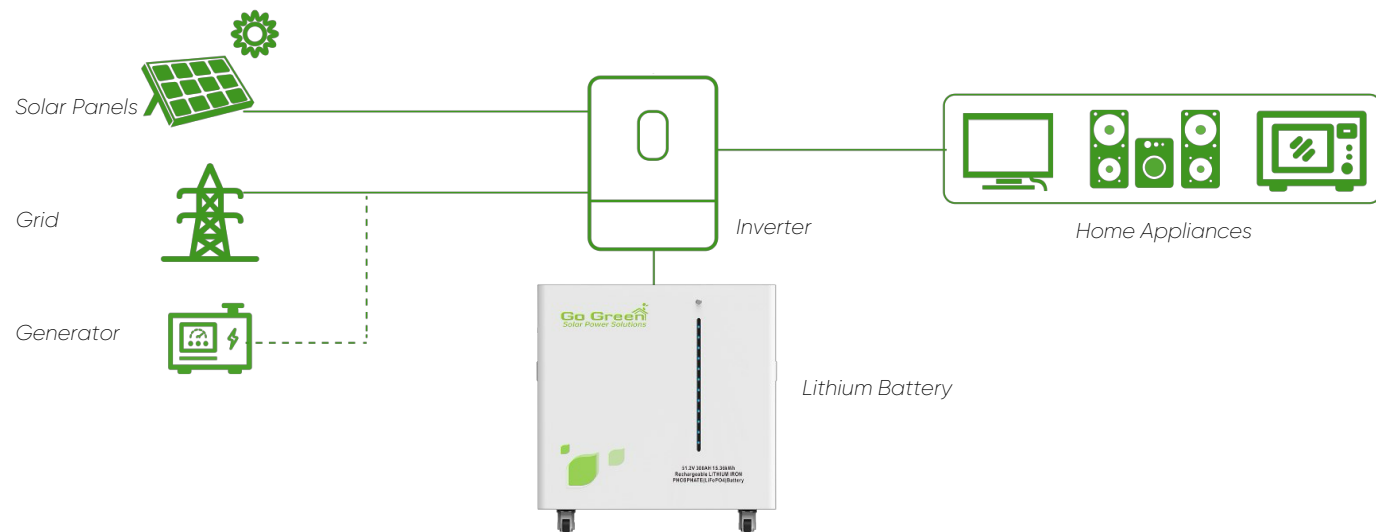
Intelligent BMS



>6000 Cycles



5 Years Warranty



Model	GGESS-15kWh
Energy Capacity	51.2V 300AH
Cell Specifications	LiFePO4
Cell Configuration	16S1P
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	44.8V
Max Discharge Current	150A
Max Charge Current	150A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0°C-60°C Discharge temperature -20°C -60°C
Cycle Life	>6000 Cycles
Warranty	5 Years
Dimension (W,D,H) / Weight	680*270*710mm / 123.2Kg
Communication Interface	RS485, RS232, CAN, UART
Dual Inline-Pin	Up to 6 batteries can be connected in parallel



# GGESS / 51.2V-500AH

LiFePO4 Battery



Maintenance Free



Grade A Cell

**BMS**

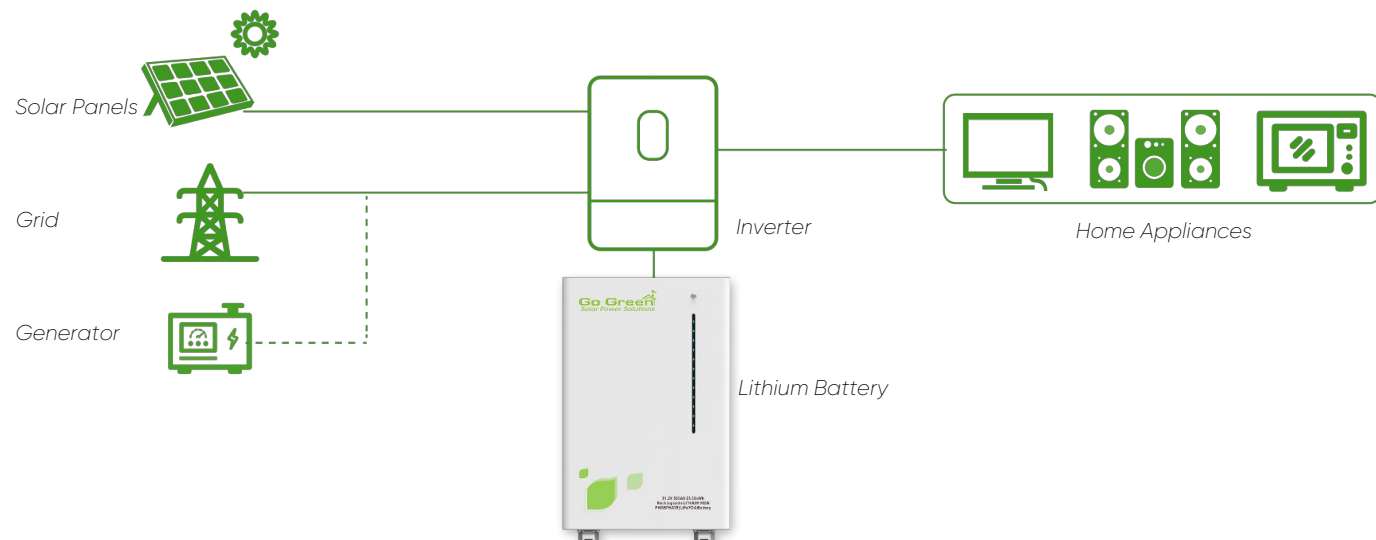
Intelligent BMS



>6000 Cycles



5 Years Warranty



Model	GGESS-25kWh
Energy Capacity	51.2V 500AH
Cell Specifications	LiFePO4
Cell Configuration	16S3P
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	44.8V
Max Discharge Current	150A
Max Charge Current	150A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0°C-60°C Discharge temperature -20°C -60°C
Cycle Life	>6000 Cycles
Warranty	5 Years
Dimension (W,D,H) / Weight	530*340*882mm / 166.2Kg
Communication Interface	RS485, RS232, CAN, UART
Dual Inline-Pin	Up to 6 batteries can be connected in parallel



# GGESS / 51.2V-600AH

LiFePO4 Battery



Maintenance Free



Grade A Cell

**BMS**

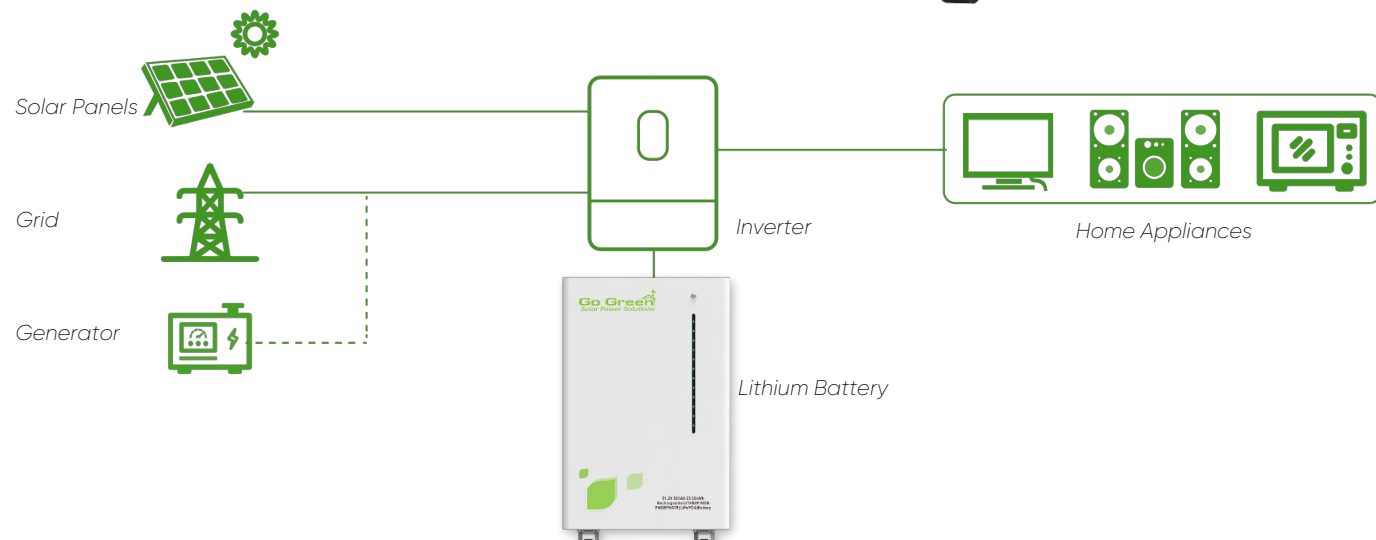
Intelligent BMS



>6000 Cycles



5 Years Warranty



Model	GGESS-30kWh
Energy Capacity	51.2V 600AH
Cell Specifications	LiFePO4
Cell Configuration	16S2P
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	43.2V
Max Discharge Current	200A
Max Charge Current	200A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0°C-60°C Discharge temperature -20°C -60°C
Cycle Life	>6000 Cycles
Warranty	5 Years
Dimension (W,D,H) / Weight	680*340*920mm / 230.0Kg
Communication Interface	RS485, RS232, CAN, UART
Dual Inline-Pin	Up to 6 batteries can be connected in parallel



# NR

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**ENERGY STORAGE SOLUTIONS**



# GGESS / 215kWh

## LiFePO4 Battery

- Solar + Storage solution
- Unified design concept
- Advanced safety features
- Convenient outdoor configuration
- Enable adaptable system design
- Scalable capacity
- Air-cooled distribution



Model	GGESS 215kWh
Rated capacity	215kWh
Rated voltage	768V
Voltage range	648V~876V
Battery Type	LiFePO4 (LFP)
Battery pack connection	1P16S*15S
Rated charge and discharge current	140A
Maximum charge and discharge current	170A
Photovoltaic rated power	50kW (optional)
Photovoltaic voltage range	300V~1000V
Rated AC power	100kW
Rated AC voltage	400V, 3W+N+PE/3W+PE
Rated AC frequency	50/60Hz
Current total harmonic distortion rate THDI	< 3% (rated power)
Voltage total harmonic distortion rate THDU	< 3% (linear load)
Power Factor	-1 ~ +1
Protection level	IP55
Display	LCD touchscreen
Noise	< 75dB
Operating temperature	-25°C ~60°C
Cooling method	Air cooled
Altitude	Derating over 3000m
EMS communication	Ethernet/485
BMS Communication	CAN/485
Size	1451*1085*2383mm
Weight	Around 2.6T

# Industrial & Commercial ESS Solutions(Air-cooled 215kWh)

## Product Overview:

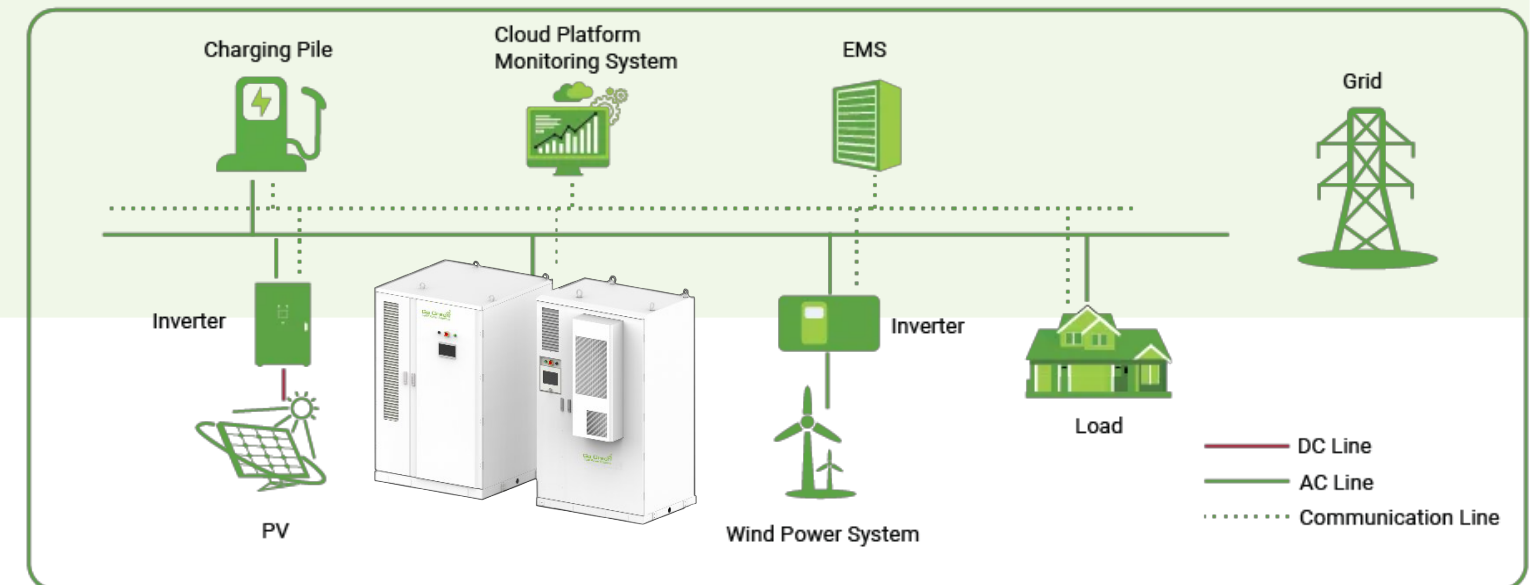
Adopting the "All In One" design concept, the battery PACK, battery management system BMS, energy management system EMS, energy storage inverter PCS temperature control system and fire protection system are integrated into one cabinet, forming a standard integrated plug and play modular energy storage system.

## Demands :

Power rationing, high peak rates, demand charges, capacity shortage, costly transformer upgrades, spatial constraint, etc.

## Product Advantages:

- **Fully Functional:** Supports remote and local control, accepts status and fault information anytime and anywhere with on/of grid
- **Safe & Reliable:** Built in smoke detector, temperature sensor, temperature control, fire protection, water immersion system, real time monitoring of the status inside the box, able to suppress or control unexpected situations in the first time can be directly connected to low voltage
- **Easy To Connect:** AC380 three-phase four wire output.
- **Easy Installation:** All devices are integrated into the cabinet and only connect external wiring harness on site, no need secondary assembly
- **Convenient Transportation:** Supports transportation with battery modules

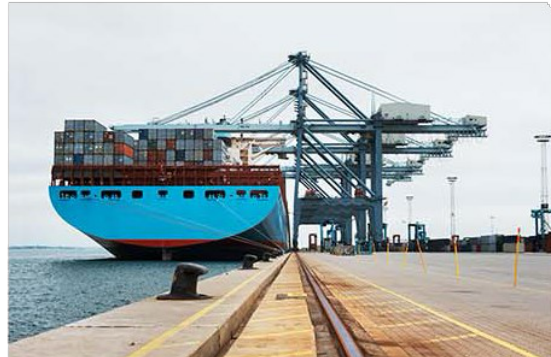


## Scenarios :

Industrial Parks



Ports



Office Building



Supermarket



Hospital



# 04

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**OUR PROJECTS**



## OUR PROJECTS



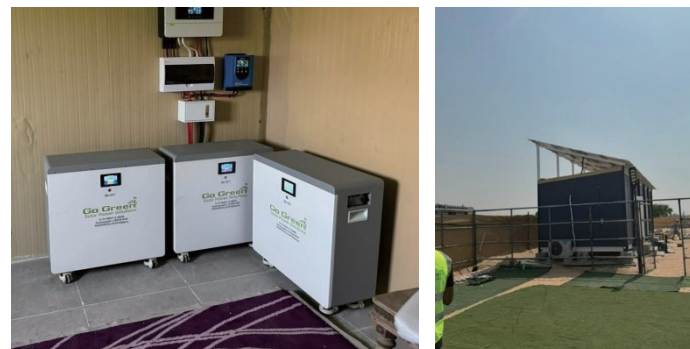
Expo 2020 -Dubai  
Supply and installation  
Parking Solar Power System

## OUR PROJECTS



Farm Storage Container  
Abu Dhabi  
supply and Installation  
Off Grid Solar Solution for Farm

Dog Shelter Porta Cabin  
Al Awir - Dubai  
Supply and Installation  
Off Grid Solar Power Solution

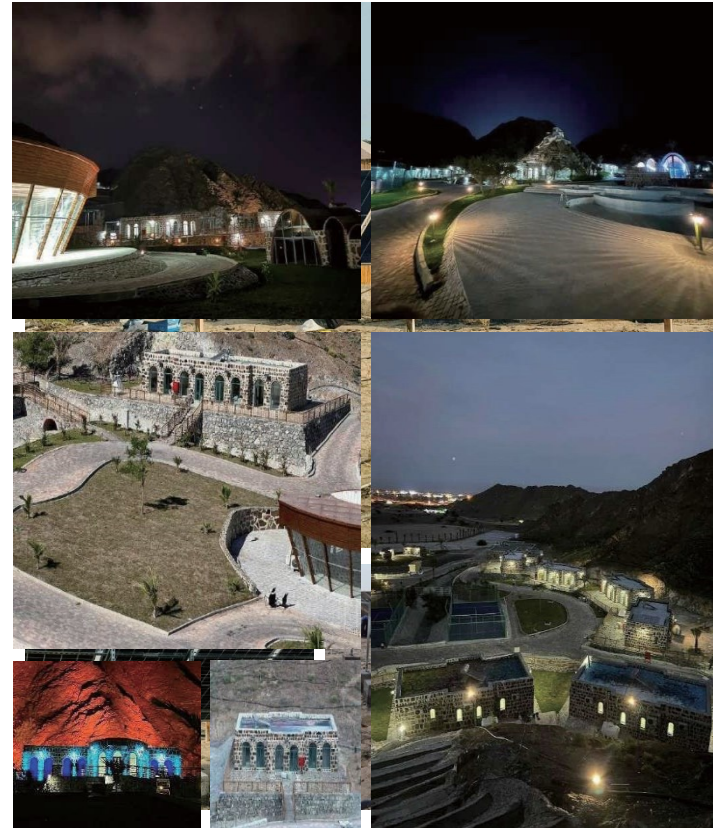


Ajman Fish Market  
Supply and Installation  
Commercial Solar Power  
Off Grid Solution



## OUR PROJECTS

Dibba Mountain Park  
Fujairah  
Supply and installation  
Solar Lights System



## OUR PROJECTS

Solar Pump Back Up  
Mikoko - Umm Al Quwain  
Supply and Installation  
Off Grid Solar Solution



Du Telecom  
Telecom Tower  
Supply and Installation  
Of Hybrid Inverter



Residential Villa - Ajman  
Supply and Installation  
Off Grid Solar Solution

## OUR MAJOR CLIENTS

