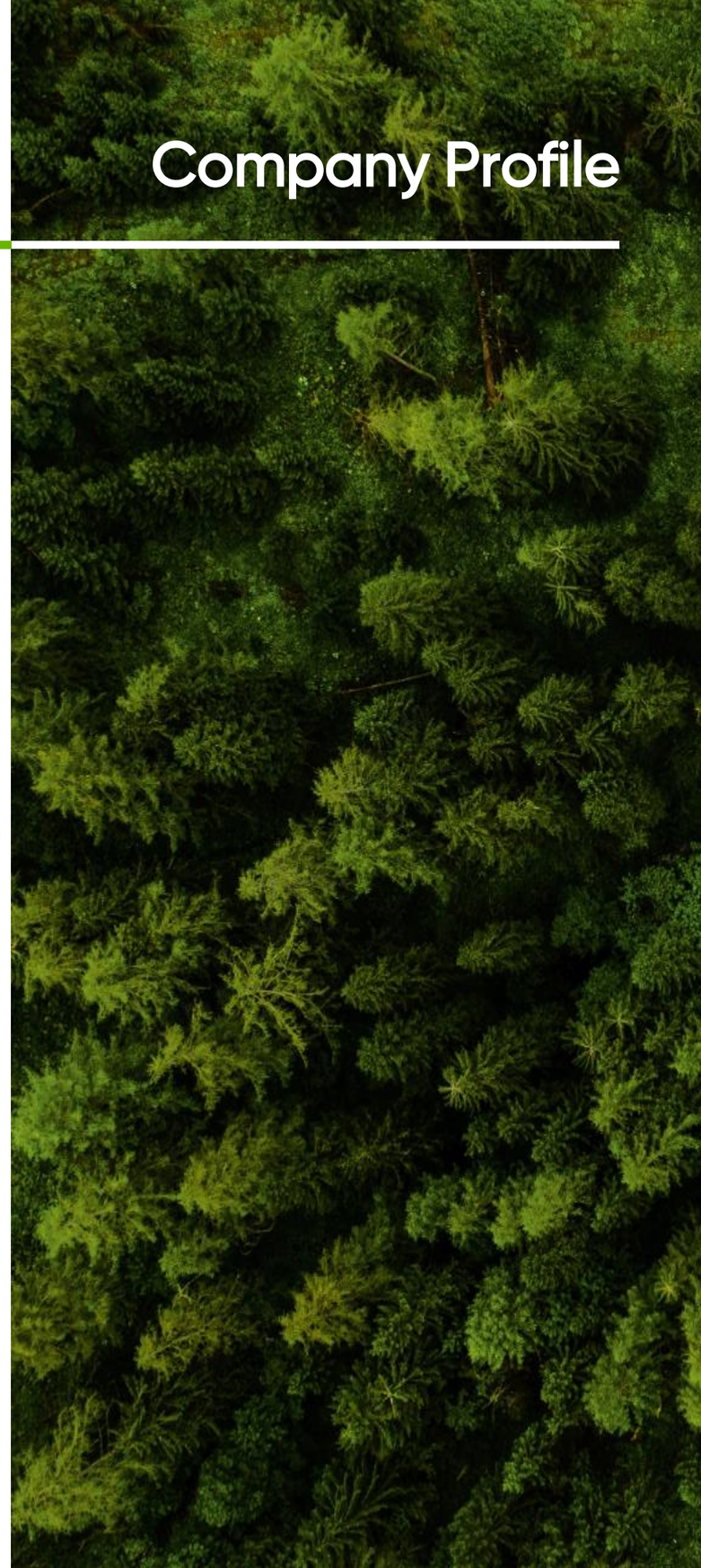
Company Profile

Go Green
Solar Power Solutions



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.

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.

Go Green
Solar Power Solutions

Hybrid Inverters

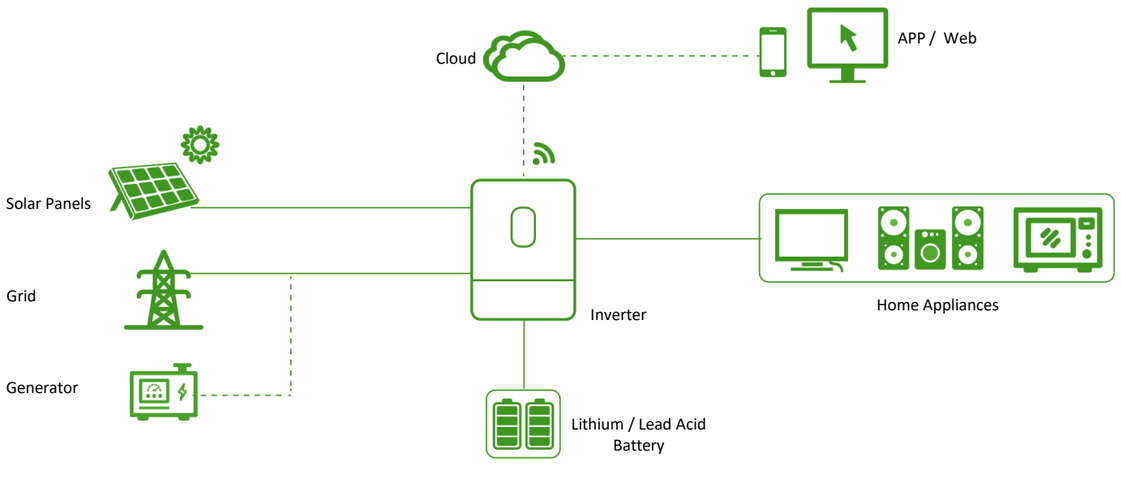
Go Green
Solar Power Solutions

Go Green
Solar Power Solutions

GGIV 2000

Single Phase Hybrid Inverter

- Feed in Grid
- Pure Sine Wave
- Detachable Dust Cover
- Lithium Battery Activation
- Power Factor 1.0
- Wide MPPT Range 20-125V
- LCD Display
- Support Lithium/Lead-acid Battery



SPECIFICATION

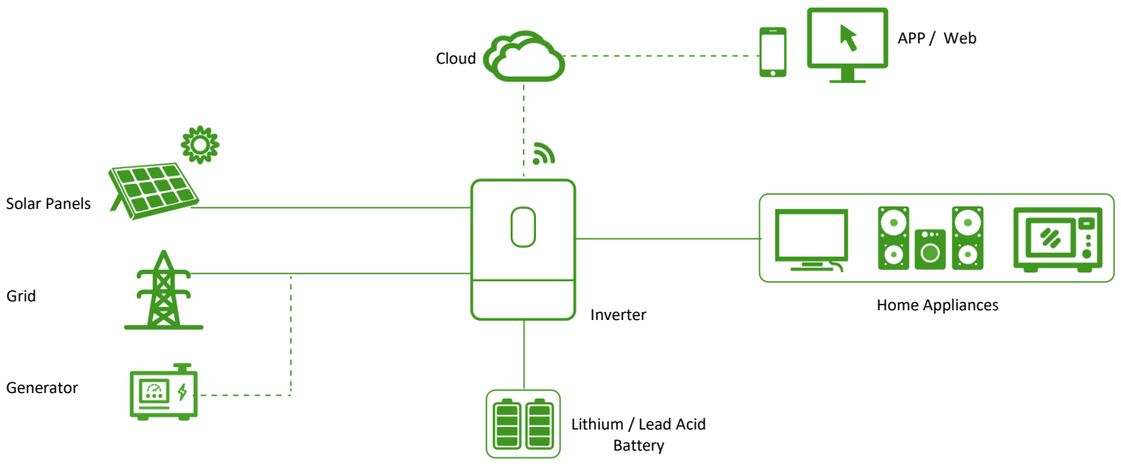
Model	GGIV 2000
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kVA)	2.0
Peak Power (kVA)	2.4
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	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
Charger (PV / AC)	
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
Battery	
Rated Voltage (VDC)	12
Floating Charge Voltage (VDC)	13.8
Overcharge Protection (VDC)	15
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / USB
Monitoring	NA
General Data	
Ingress Protection	IP20
Operating Temperature	-10 ℃~ 50 ℃
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 ℃~ 60 ℃
Net Weight (kg)	3.6
Dimensions (W*H*D)	330*226*92mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

Go Green
Solar Power Solutions

GGIV 4000

Single Phase Hybrid Inverter

- Feed in Grid
- Pure Sine Wave
- Detachable Dust Cover
- Lithium Battery Activation
- Workable with Generator
- Wide MPPT Range 40-500V
- WiFi Monitoring
- BMS Support Lithium/Lead-acid Battery



SPECIFICATION

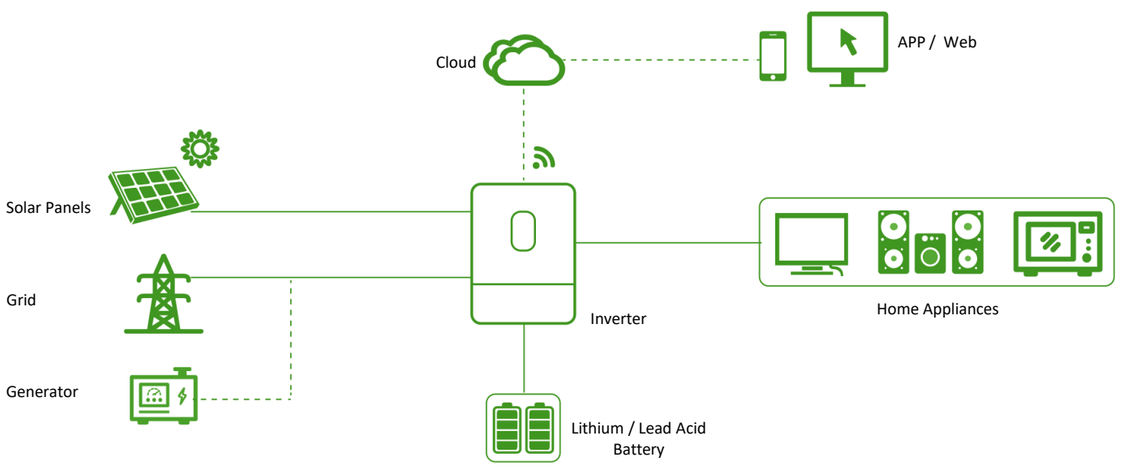
Model	GGIV 4000
AC Input	
Rated Input Voltage (VAC)	208 /220 /230 /240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 /60 (Auto Adaptive)
AC Output	
Rated Capacity (kVA)	4.0
Peak Power (kVA)	7.2
Voltage (VAC)	208 /220 /230 /240
Power Factor (PF)	1
Frequency	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
Charger (PV / AC)	
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
Battery	
Rated Voltage (VDC)	24
Floating Charge Voltage (VDC)	27
Overcharge Protection (VDC)	30.5
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 /RS232 /USB /Dry Contact
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 ℃~ 50 ℃
Relative Humidity	5% ~95% (Non-condensing)
Storage Temperature	-15 ℃~ 60 ℃
Net Weight (kg)	6.4
Dimensions (W*H*D)	490*306*115mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

Go Green
Solar Power Solutions

GGIV 6000

Single Phase Hybrid Inverter

- Feed in Grid
- Pure Sine Wave
- Detachable Dust Cover
- Lithium Battery Activation
- Workable with Generator
- Wide MPPT Range 120-500V
- WiFi Monitoring
- BMS Support Lithium/Lead-acid Battery



SPECIFICATION

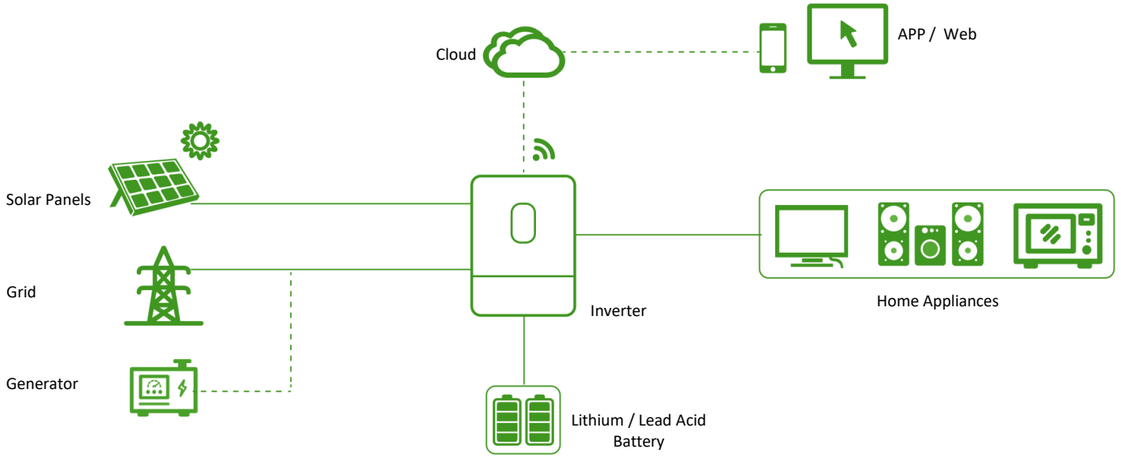
Model	GGIV 6000
AC Input	
Rated Input Voltage (VAC)	208 /220 /230 /240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 /60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	6.0
Surge Power (kVA)	10
Voltage (VAC)	208 /220 /230 /240
Power Factor (PF)	1
Frequency	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
Charger (PV / AC)	
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
Battery	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 /RS232 /USB /Dry Contact
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 ℃~ 50 ℃
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 ℃~ 60 ℃
Net Weight (kg)	9.5
Dimensions (W*H*D)	510*306*115mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

Go Green
Solar Power Solutions

GGIV 8000

Single Phase Hybrid Inverter

- Feed in Grid
- Pure Sine Wave
- Detachable Dust Cover
- Lithium Battery Activation
- Workable with Generator
- Wide MPPT Range 60-500V
- WiFi Monitoring
- BMS Support Lithium/Lead-acid Battery



SPECIFICATION

Model	GGIV 8000
AC Input	
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)
AC Output	
Rated Capacity (kW)	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
Charger (PV / AC)	
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
Battery	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / USB / Dry Contact / CT / Meter /
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 ℃~ 50 ℃
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 ℃~ 60 ℃
Net Weight (kg)	10
Dimensions (W*H*D)	508*338*136.5mm
Max. Operating Altitude	4000m (Derating above 1000m)

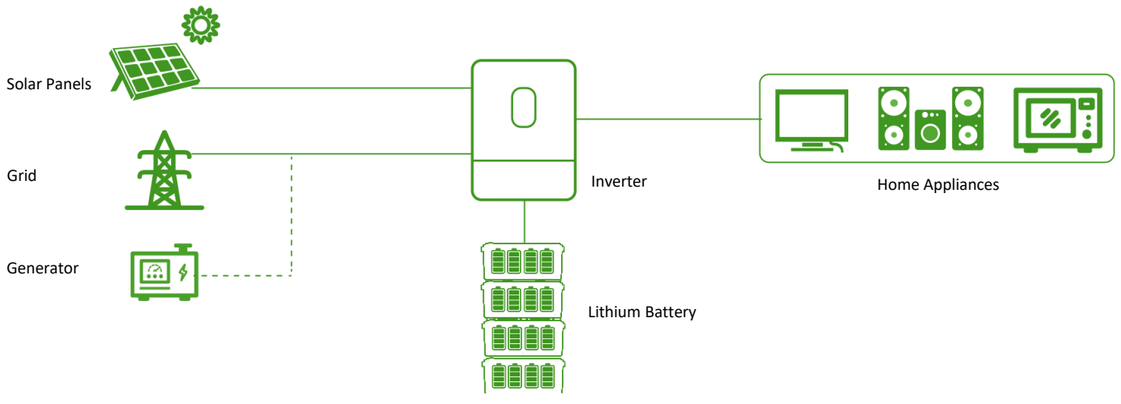
Lithium Batteries

Go Green
Solar Power Solutions

GGESS / 12.8V-200AH

LiFePO4 Battery

- Maintenance Free
- Grade A Cell
- Bluetooth
- LCD Screen
- BMS — Intelligent BMS



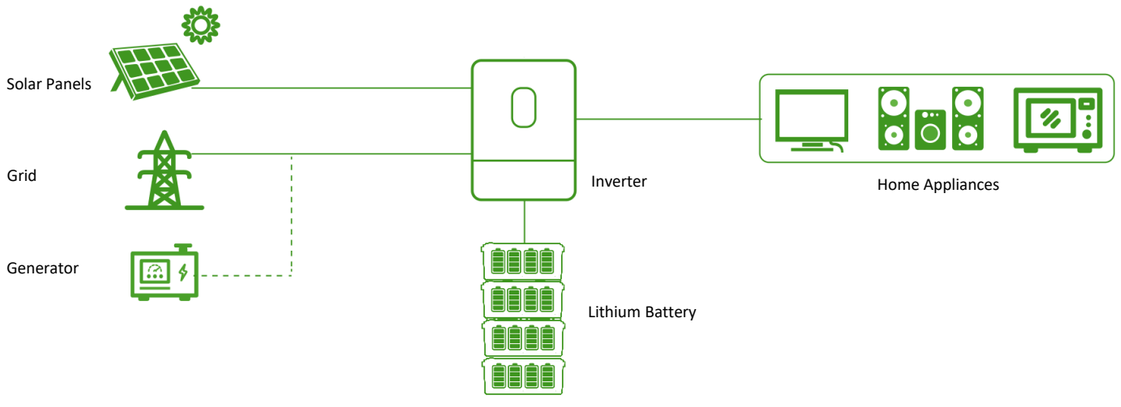
Model	12.8V 200Ah
Nominal Voltage	200Ah
Nominal Capacity	2560Wh
Cell Specifications	LiFePO4
Cell Configuration	4S2P
Charge Cut-off Voltage	14.6V
Discharge Cut-off Voltage	10.8V
Max Charge Voltage	16V
Optimum Charge Current	100A
Max Continuous Charge Current	150A
Max Continuous Discharge Current	150A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0^0C-60^0C Dischargetemperature-20^0C -60^0C
Cycle Life	>3000 Cycles
Warranty	3 Years
Dimension (W, D, H)	522*240*218mm
Net Weight	20kg
Shelf Material	ABS Plastic Shell
Other Function (Optional)	Bluetooth App
Screen	LCD
Battery Type	Rechargeable Lithium Iron Phosphate

Go Green
Solar Power Solutions

GGESS / 12.8V-300AH

LiFePO4 Battery

- Maintenance Free
- Grade A Cell
- Bluetooth
- LCD Screen
- BMS — Intelligent BMS

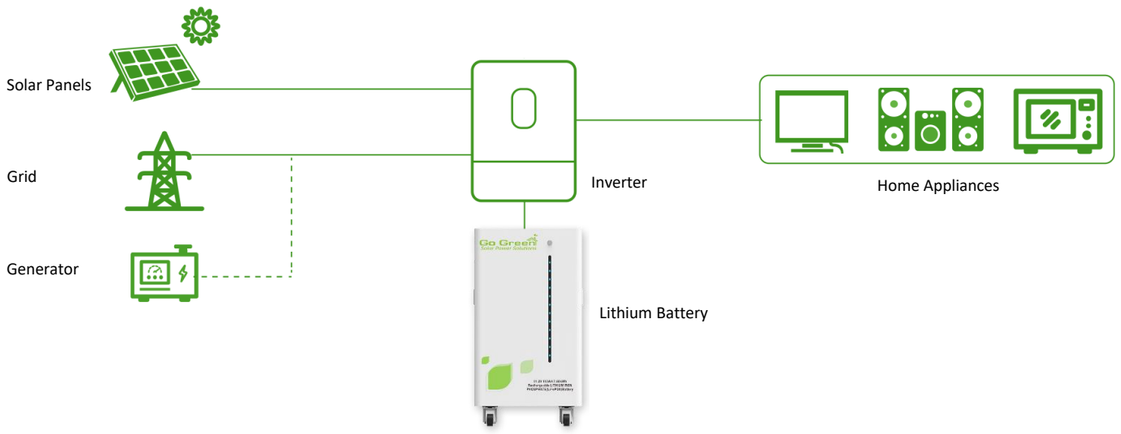


Model	12.8V 300Ah
Nominal Voltage	300Ah
Nominal Capacity	3840Wh
Cell Specifications	LiFePO4
Cell Configuration	4S1P
Charge Cut-off Voltage	14.6V
Discharge Cut-off Voltage	10.8V
Max Charge Voltage	16V
Optimum Charge Current	100A
Max Continuous Charge Current	200A
Max Continuous Discharge Current	200A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0^0C-60^0C Dischargetemperature-20^0C -60^0C
Cycle Life	>3000 Cycles
Warranty	3 Years
Dimension (W, D, H)	522*228*218mm
Net Weight	28kg
Shelf Material	ABS Plastic Shell
Other Function (Optional)	Bluetooth App
Screen	LCD
Battery Type	Rechargeable Lithium Iron Phosphate

GGESS / 25.6V-300AH

LiFePO4 Battery

- Maintenance Free
- Grade A Cell
- Intelligent BMS
- >5000 Cycles
- 5 Years Warranty

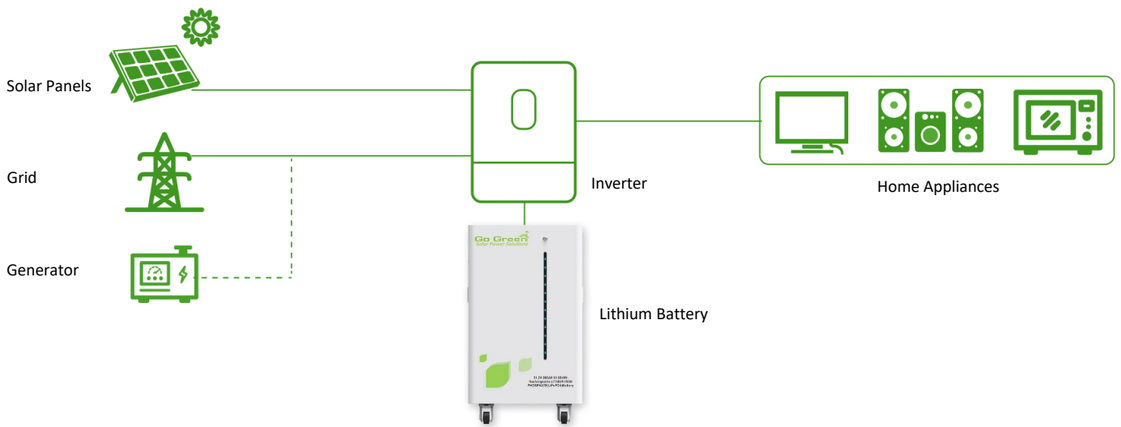


Model	GGESS-7kWh
Energy Capacity	25.6V 300AH
Cell Specifications	LiFePO4
Cell Configuration	8S1P
Charge Cut-off Voltage	29.2V
Discharge Cut-off Voltage	21.6V
Max Discharge Current	150A
Max Charge Current	150A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0^0C-60^0C Dischargetemperature-20^0C -60^0C
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
- Intelligent BMS
- >5000 Cycles
- 5 Years Warranty

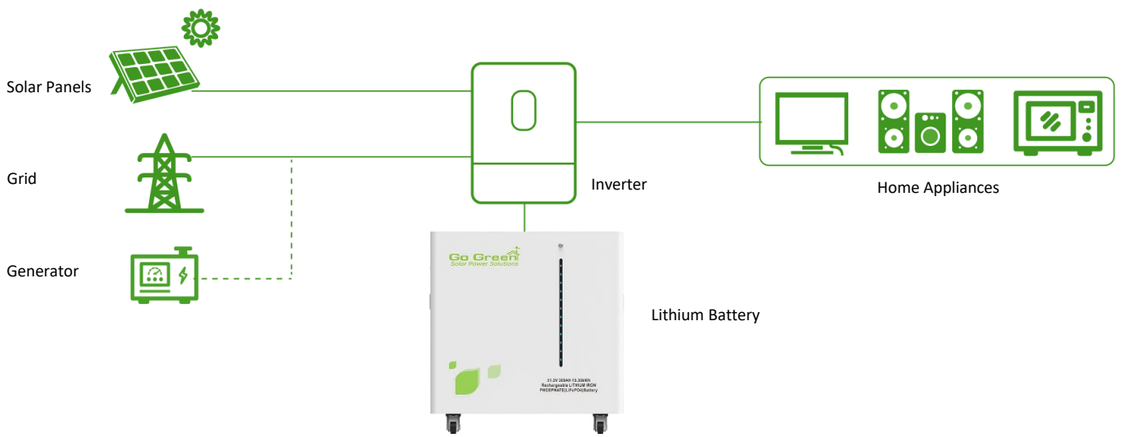


Model	GGESS-10kWh
Energy Capacity	51.2V 200AH
Cell Specifications	LiFePO4
Cell Configuration	16S1P
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	44.8V
Max Discharge Current	150A
Max Charge Current	150A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0^0C-60^0C Dischargetemperature-20^0C -60^0C
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
- Intelligent BMS
- >5000 Cycles
- 5 Years Warranty

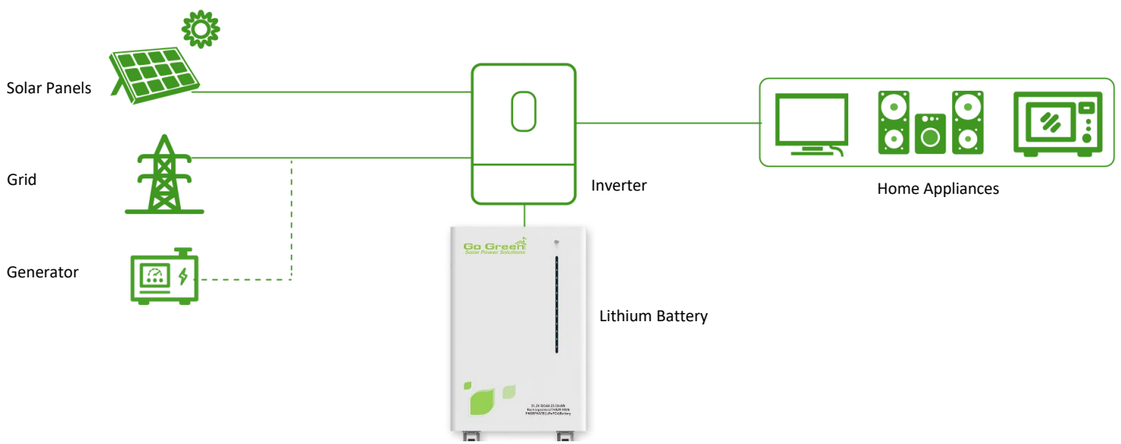


Model	GGESS-15kWh
Energy Capacity	51.2V 300AH
Cell Specifications	LiFePO4
Cell Configuration	16S1P
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	44.8V
Max Discharge Current	150A
Max Charge Current	150A
Battery Management System	Over-voltage, Low-voltage, Temperature control, Overload and AC short circuit protection, Surge protection
Operating Temperature	Charge temperature 0^0C-60^0C Dischargetemperature-20^0C -60^0C
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
- Intelligent BMS
- >5000 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 0^0C-60^0C Dischargetemperature-20^0C -60^0C
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

Energy Storage Solutions

Go Green
Solar Power Solutions

GGESS / 215kWh

LiFePO4 Battery

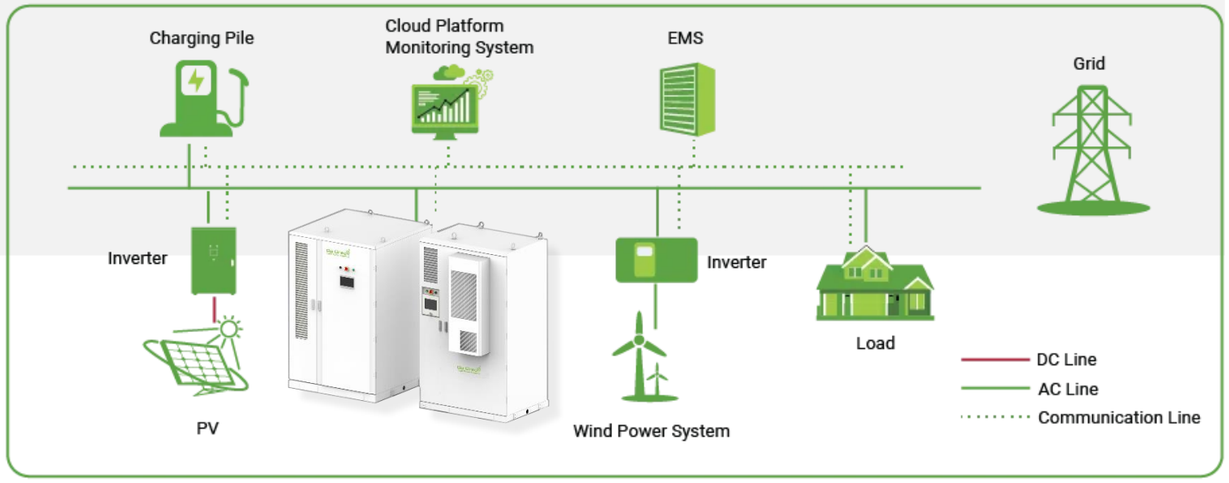
- Solar + Storage solution
- Unified design concept
- Advanced safety features
- Convenient outdoor configuration
- Enable adaptable system design
- Scalable capacity
- Air-cooled distribution

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℃~60℃
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.



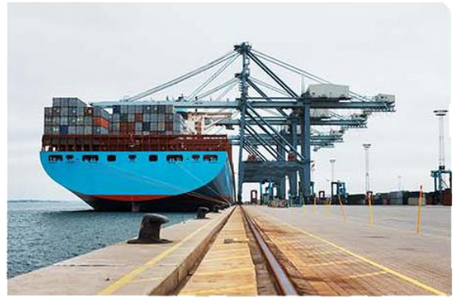
Product Advantages:

- 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

Our Projects

Go Green
Solar Power Solutions

Our Projects

Expo 2020 - Dubai
Supply and installation
Parking Solar Power System

Our Projects

Dog Shelter Porta Cabin

Al Awir – Dubai

Supply and Installation

Off Grid Solar Power Solution

Our Projects

Farm Storage Container

Abu Dhabi

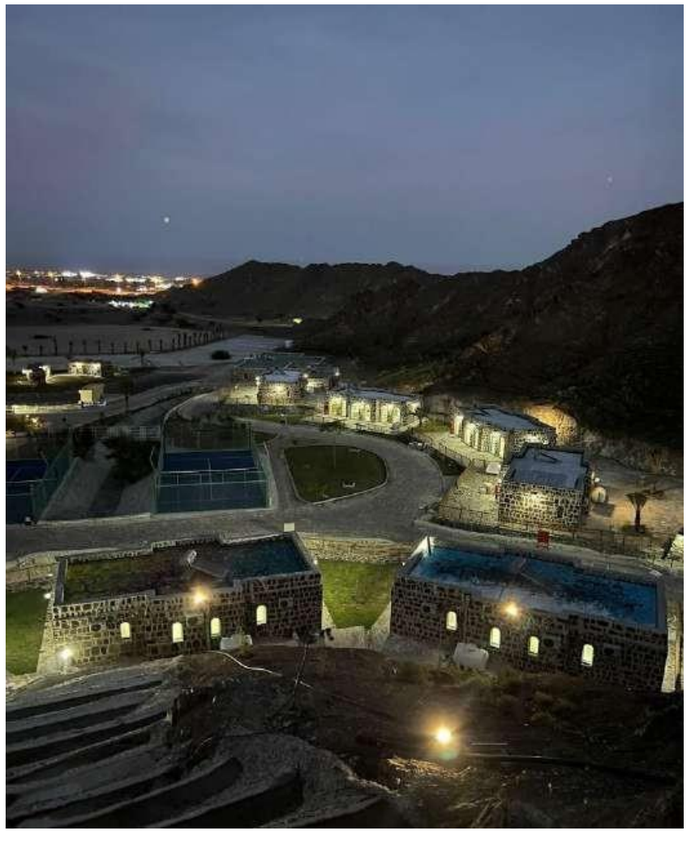
Supply and Installation

Off Grid Solar Solution for Farm

Our Projects

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 Gird Solar Solution

Our Projects

Residential Villa - Ajman

Supply and Installation

Off Grid Solar Solution

Our Major Clients

دائرة التنمية الاقتصادية | حكومة عجمان
Government of Ajman | Department of Economic Development

بلدية الفجيرة
FUJAIRAH MUNICIPALITY
تضمن سلامة الغذاء و المياه في الإمارة
Ensures the Safety of Food and water in the Emirate

هيئة الشارقة للآثار
Sharjah Archaeology Authority

مدينة الشارقة المستدامة
SHARJAH SUSTAINABLE CITY

إكسبو EXPO 2020
دبي، الإمارات العربية المتحدة
DUBAI, UNITED ARAB EMIRATES

EMAAR
COMMUNITY MANAGEMENT

نزرع للغد
ICBA
AGRICULTURE FOR TOMORROW

DMP
Dibba Mountain Park

DDCG
DEC DEG CONSTRUCTION GROUP

ELITE
AGRO PROJECTS

Go Green
Solar Power Solutions

"Go Green Solar Power Solutions, illuminating your world with sustainable energy solutions for a greener tomorrow."