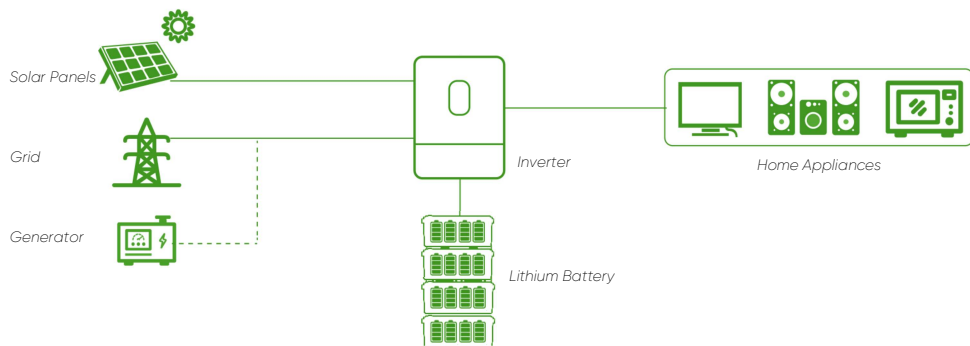


GGESS / 12.8V-100AH

LiFePO4 Battery

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



SPECIFICATION

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

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LITHIUM BATTERIES

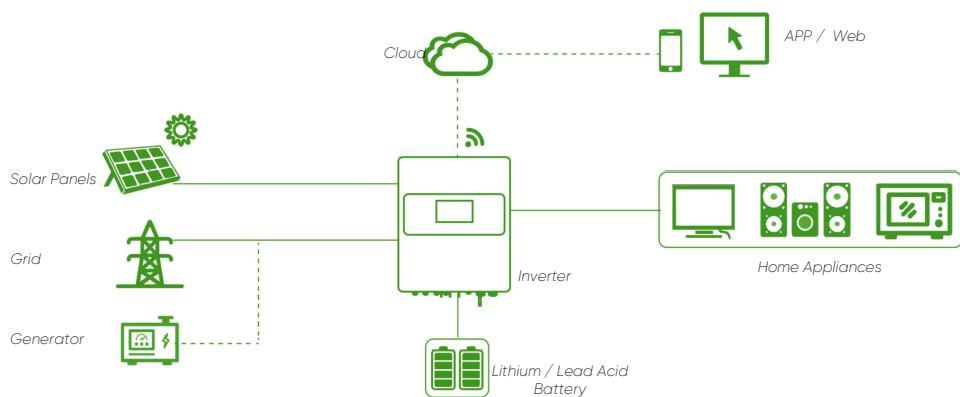


GGIV 3P-14KW

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



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

Model	GGIV 3P-14KW
Battery Input	
Battery Type	Lead-acid or Li-Lon
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
PV String Input	
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
AC Output	
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%)
Efficiency	
Max. Efficiency	97.90%
Euro Efficiency	96.90%
MPPT Efficiency	99.90%
Protection	
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
General Data	
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

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

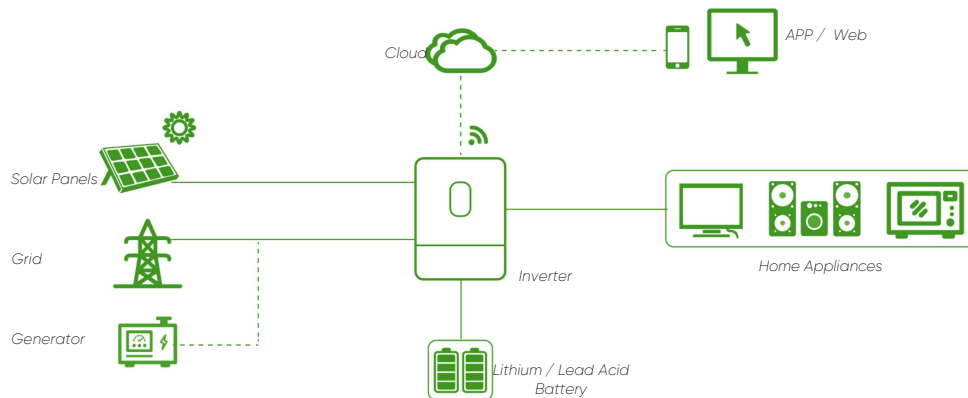


Model	GGIV 1P-12KW
PV (DC Input)	
Recommended Max. PV Input Power	12000W
Max. Input Voltage (Voc)	500V
MPPT Operating Voltage Range	85V-450V (@75V Start Up)
Number of MPPT	2
Max. Number of Input Strings per MPPT	1
Max. Input Current per MPPT	27/27A
Max. Short-circuit current per MPPT	35/35A
Grid (AC Input)	
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)
Battery Parameters (Bidirection)	
Battery Type	LiFePO4 / Lead Acid
Battery Voltage Range	40-60Vdc
Rate Battery Voltage	48Vdc
Max. Charge/Discharge Current	210A/230A
BMS Communication Mode	RS485
Back-up Output (AC Output)	
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)
Efficiency	
Peak Efficiency	98.00%
Max. MPPT Efficiency	99.90%
Protection	
Inner Protection	✓Output Short-Circuit Protection ✓Output Over-Voltage Protection
Surge Protection	PV: Type III, AC: Type III
IP Rating	IP54
General Parameters	
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
Mechanical Specifications	
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 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



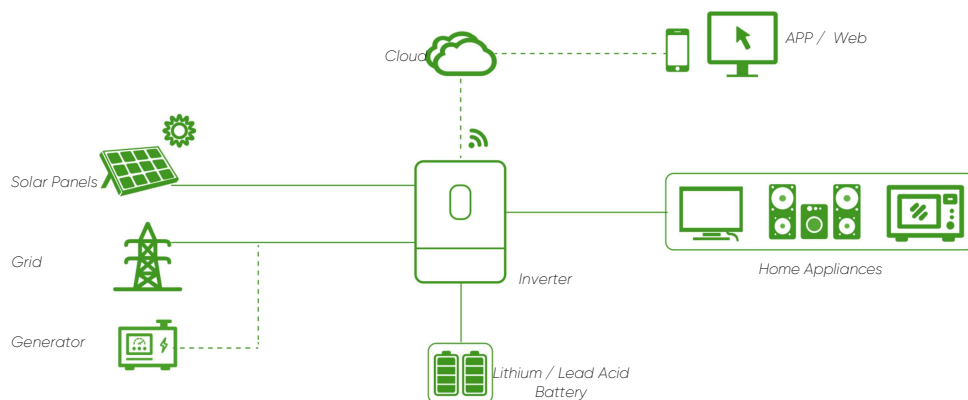
SPECIFICATION

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 (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% @ 48 VDC
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 °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 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



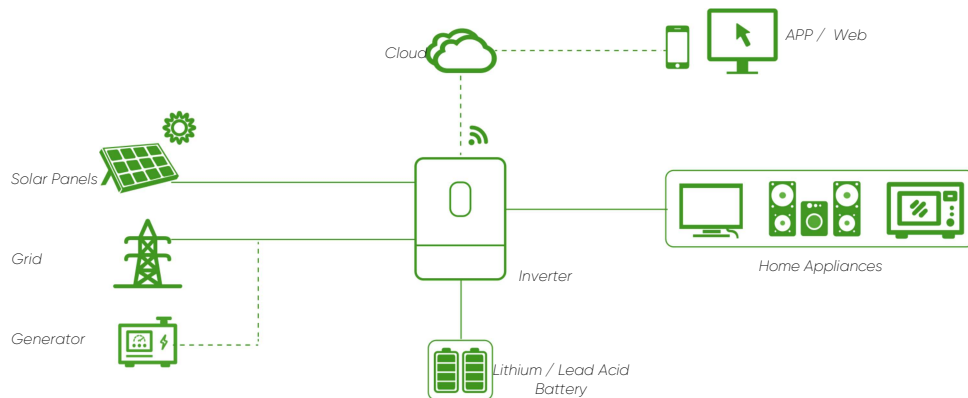
SPECIFICATION

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 (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
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 /DryContact
Monitoring	WiFi (Optional)
General Data	
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 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



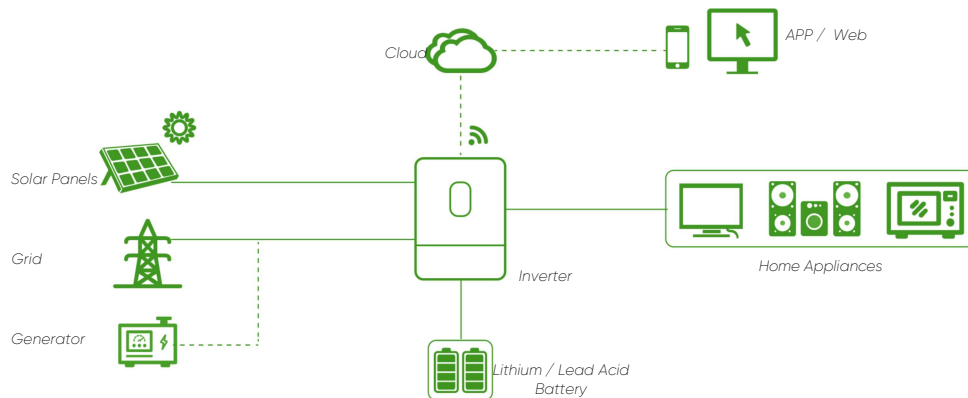
SPECIFICATION

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 °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 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



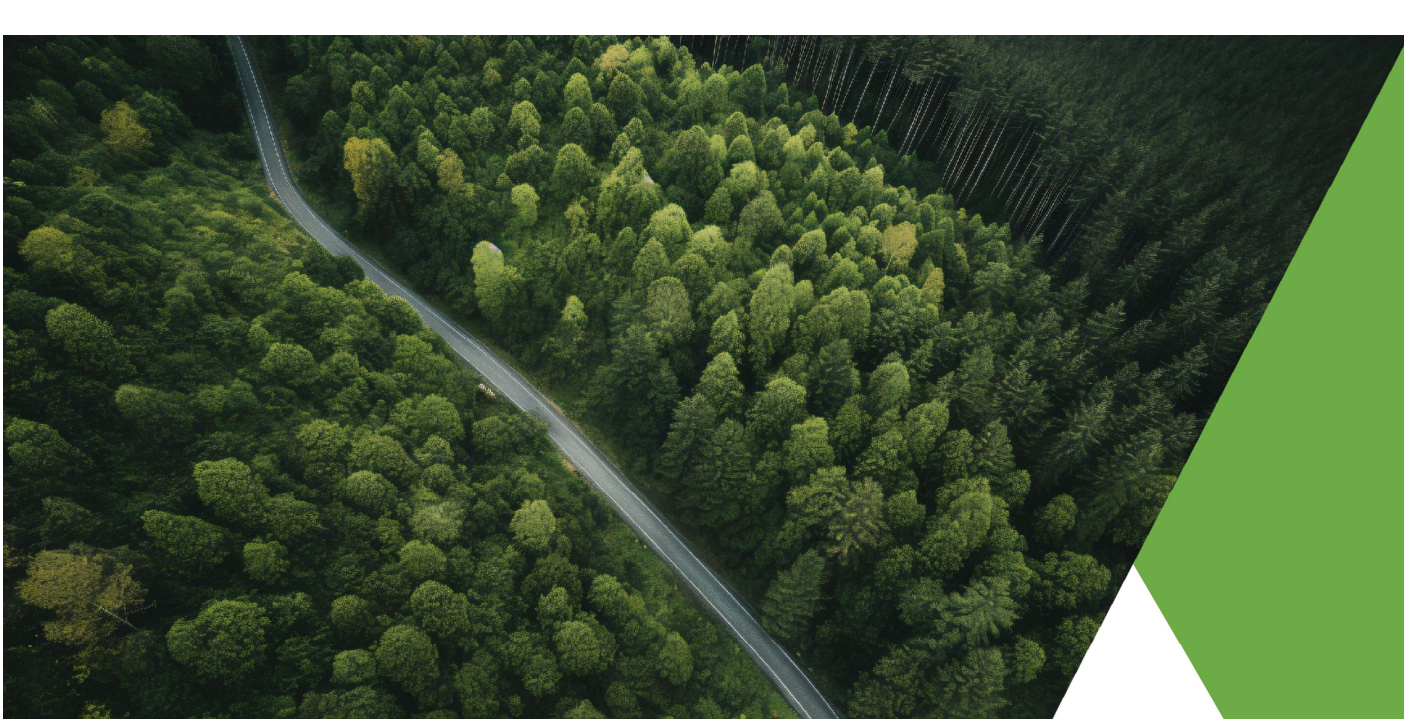
SPECIFICATION

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 °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)

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HYBRID INVERTERS





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.



Go Green
Solar Power Solutions



Website: www.gogreen-solarsolutions.com

Email: info@gogreen-solarsolutions.com

