GENLUX
NERGY
POWERING TOMORROW, TODAY

# ENERGY STORAGE SYSTEMS




+86-138-8927-0147

jeff@genluxenergy.com

Website: www.genluxenergy.com .

A-M29 & M30, 2/F, Zhongxing No.1, No.36 Middle Zhongxing Avenue,
Guzhen Town, Zhongshan City, Guangdong Province, P.R.China

# LIFEPO4 BATTERY

**10Ah 15Ah 30Ah 45Ah 60Ah 120Ah 240Ah 300Ah**



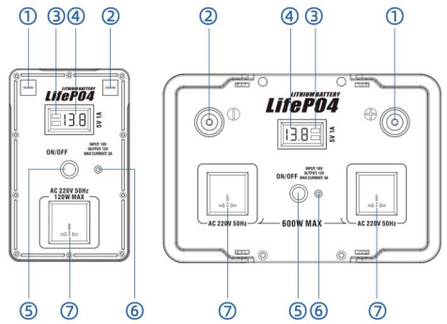

**120W(10Ah)** **120W(15Ah)** **600W(30Ah)** **600W(45Ah)**

## Applicable to multiple scenarios

**It is applicable to solar power generation systems, smart homesservers, solar monitoring systems, power supply for electronic devicescamping electricity, RV capacity expansion, etc. It is applicable to thedemands of various industries**

## More application scenarios

ac · oven · refrigerator · Electric drill · Water heater · tv · Washing machine · Coffee machine




① Positive
② Negative
③ USB output
④ Voltage Display
⑤ Power Switch
⑥ DC input/DC output
⑦ AC output

GENLUX ENERGY
POWERING TOMORROW, TODAY

| Model | GL-A60AH | GL-B100AH | GL-B120AH | GL-C200AH | GL-C240AH | GL-D300AH |
|---|---|---|---|---|---|---|
| Nominal voltage | 12.8V | | | | | |
| Charge voltage | 14. 6Y | | | | | |
| Discharge protectionvoltage | 10.4V | | | | | |
| Battery Capacity | 60Ah | 100Ah | 120Ah | 200Ah | 240Ah | 300Ah |
| Max continuous charging current | 25A | 40A | | 70A | | 100A |
| Continuous /peak discharge | 40A/60A | 60A/80A | | 100A/150A | | 150A/200A |
| 0vercharge protection delay time | 500-1500.00mS | | | | | |
| 0ver-discharge protection delay | 500-1500.00mS | | | | | |
| Discharge over current protection Current | 20A | 250A | | 350Ah | | 500A |
| Discharge overcurrent protection delay | 500-1500.00mS | | | | | |
| Charge over current protection Current | 60A | 80A | | 100A | | 150A |
| Charging overcurrent protection delay | 500-1500.00mS | | | | | |
| scharge short-circuit protection De | 200~300uS | | | | | |
| Normal current consumption of | Max 50uA | | | | | |
| USB output | 5V IA | | | | | |
| Energy | 768Wh | 1280Wh | 1536Wh | 2560Wh | 3072Wh | 3840Wh |
| Storage temperature | -10"C-50℃(14°F-122°F) | | | | | |
| Weight | 6.1kg | 9.8kg | 11.6kg | 17.05kg | 21.7kg | 27.1kg |
| Size | 276x188×230mm | 385×222×253mm | | 470x222x253mm | | 539×277x258mm |

| Model | GL-120W | | GL -600W | |
|---|---|---|---|---|
| Energy | 10Ah/128Wh | 15Ah/192Wh | 30Ah/384Wh | 45Ah/576Wh |
| Nominal voltage | 12.8V | | | |
| Charge voltage | 14.6V | | | |
| Discharge protectionvoltage | 10.4V | | | |
| Max continuous charging current | 7Ah | | 40Ah | |
| Continuous /peak discharge | 10A/15A | | 60A/80A | |
| USB output | 5V 1A | | | |
| DC output | 12V3A | | | |
| Max load/inverter power | 220V/120W | | 220V/600W | |
| Storage temperature | -10℃-50°℃(14°F-122°F) | | | |
| Size | 192×120x120mm | | 276×188×230mm | |

# LIFEPO4 BATTERY

**120Ah/240Ah/350Ah 12.8V/25.6V**




## Applicable to multiple scenarios

**It is applicable to solar power generation systems, smart homesservers, solar monitoring systems, power supply for electronic devicescamping electricity, RV capacity expansion, etc. It is applicable to thedemands of various industries**

## More application scenarios




Ac refrigerato Electric drill Water heater TV Washing machine Coffee machine

| Model | GL-600 | GL-700 | GL-800 | GL-800 |
|---|---|---|---|---|
| Nominal voltage | 12.8V | | | 25.6V |
| Charge voltage | 14.6V | | | 29.2V |
| Discharge protectionvoltage | 10.4V | | | 20.8V |
| Battery Capacity | 120Ah | 240Ah | 350Ah | 120Ah |
| Max continuous charging current | 40A | 70A | 100A | 100A |
| Continuous /peak discharge | 60A/80A | 100A/150A | 150A/200A | 100A/150A |
| Over charge detection voltage | 14.6±0.2V | | | 29.2±0.2V |
| Over charge release voltage | 13.8±0.2V | | | 27.6±0.2V |
| Over charge detection delay time | 500-1500.00mS | | | |
| Over discharge detection voltage | 8.8±0.2V | | | |
| Over discharge release voltage | 10.8±0.2V | | | |
| Over discharge detection delay time | 500-1500.00mS | | | |
| Discharge over currentprotection Current | 200A | 250A | 350Ah | 500A |
| Discharge over current protection | 500-1500.00mS | | | |
| Discharge over current Release Conditions | Remove load | | | |
| Charge over current protection Current | 60A | 80A | 100Ah | 150A |
| Charge over current protection delay | 500-1500.00mS | | | |
| Charge over current Release Conditions | Remove Charge | | | |
| Short detection delay time | 200-300uS | | | |
| Judging condition | No fire,no smoke,no smell | | | |
| Release Conditions | Remove load | | | |
| USB output | 5V 1A | | | |
| Energy | 1536Wh | 3072Wh | 4480Wh | 3072Wh |
| Storage temperature | -10°C-50℃(14°F-122°F) | | | |
| Weight | 12.9kg | 23.4kg | 27.4kg | 23.4kg |
| Size | 316×220x203mm | 340×273x202mm | 385×250x240mm | 340x273x202mm |

# LIFEPO4 BATTERY
# POWER SOPPLY SYSTEM

**300W 500W 1200W**

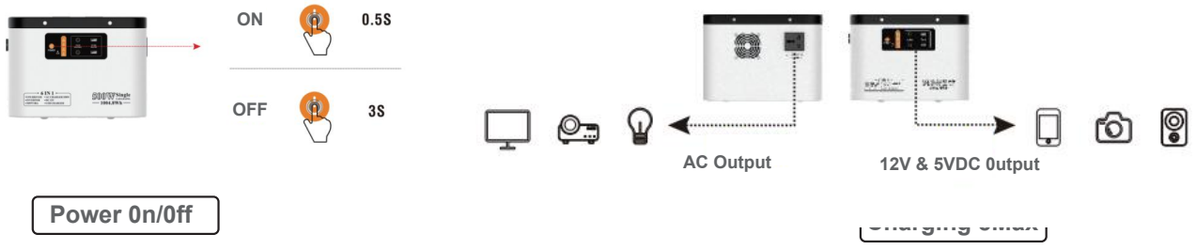


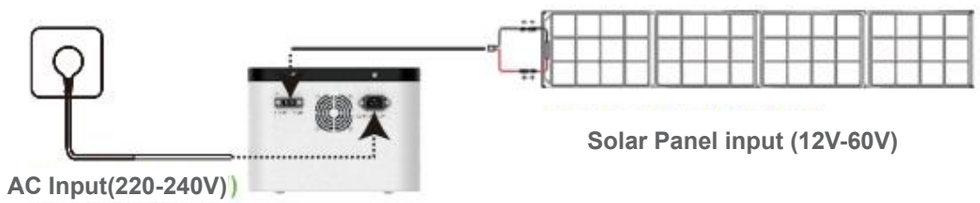

**(Available in wall-mounted or portable mobile configurations)**

**5 OUTPUT AC220V ( CAN BE CHANGED ACCORDING TO COUNTRIES )**

**2 USB OUT PUT + 2 TYPYC OUTPUT**

**AC220 INPUT CHARGER AND SOLAR PANELS INPUT CHARGER**




| Model | GL-PS1202-300W | GL-PS1202-500W | GL-PS1202-1200W |
|---|---|---|---|
| Nverter/Charger | | | |
| Rated AC Output Power | 300W | 500W | 1200W |
| Output Voltage Waveform | Pure Sine Wave | Pure Sine Wave | Pure Sine Wave |
| Output Voltage | 185~230Vac 50Hz | 185~230Vac 50Hz | 185~230Vac 50Hz |
| Low DC Cut-off Voltage | 2. 7Vdc | 2. 7Vdc | 5.4Vdc |
| Charging Power(Utility and solar together) | 350W Max. | 550W Max. | 1200W Max. |
| Bulk Charging Voltage | 3. 6Vdc | 3.6Vdc | 7. 2Vdc |
| Float Charging Voltage | 3. 5Vdc | 3.5Vdc | 7. 0Vdc |
| AC Input | | | |
| Nominal IInput Voltage | 230Vac | 230Vac | 230Vac |
| LowLoss Voltage | 90Vac±7 | 90Vac±7 | 90Vac±7 |
| Low Loss Return Voltage | 100Vac±7 | 100Vac±7 | 100Vac±7 |
| High Loss Voltage | 280Vac±7 | 280Vac±7 | 280Vac±7 |
| High Loss Return Voltage | 270Vac±7 | 270Vac±7 | 270Vac±7 |
| Max.ACInput Voltage | 300Vac | 300Vac | 300Vac |
| NominalInput Frequency | 45~65Hz | 45~65Hz | 45~65Hz |
| AC Charging Power | 350W Max. | 550W Max. | 1200W Max |
| Solar Input | | | |
| Nominal PV Voltage | 36Vdc | 36Vdc | 36Vdc |
| PVArray MPPT Voltage Range | 12Vdc~60Vde | 12Vde~60vdc | 12Vdc~60Vdc |
| Max.PV Array Open Circuit Voltage | 56Vdc | 56Vdc | 56Vdc |
| Solar Charging Power | 200W Max. | 500W Max. | 600W Max. |
| Capacity | 896Wh | 004.8Wh | 2009.6Wh |
| Nominal Battery Voltage | 3. 2Vde | 3. 2Vdc | 6. 4Vdc |
| Typical Capacity | 280Ah | 314Ah | 314Ah*2 |
| Max.Charge Current | 110A | 110A | 220A |
| Max.Discharge Current | 110A | 110A | 220A |
| Operation Voltage Range | 2.7Vdc~3.65Vde | 2. 7Vde~3. 65Vdc | 5. 4Vdc~7. 3Vdc |
| Operation Temperature | -10℃ +50℃ | | |
| DC Output | | | |
| DC Output Power | DC 12V/5V50W Max. | | |
| DC Output Socket | 2pcs 5V1A USB charger,2pcs 12V2A DC Power JACK5.5*2.lmm | | |
| Display Function | | | |
| LED Indicator | 4pcs S0C indicators,l pcs working status indicators | | |
| Protection | | | |
| Protection | Overcharge protection,Overdischarge protection、Overcurrent protection. Shortcircuit protection、vertemperature protection | | |
| Ambient | | | |
| Noise (dB) | <40dB(1 meter) | | |
| workingTemperature | -10°℃~+40°℃ | | |
| Humidity | 5~95%(no condensation) | | |
| Sea Level(m) | <2000 | | |
| Dimension | | | |
| LXWH(products size) | 275*270*195mm | 275*270*195mm | 275*270*295mm |
| LXWXH(package size) | 345*340*265mm | 345*340*265mm | 345*340*365mm |
| Weight(NW Kg) | 11.5 | 12.5 | 19.5 |

# ALL-IN-ONE SOLAR SYSTEM

## 6.5KW + 16KWH




**Stacking Design,integrating a hybrid inverter and lithium iron phosphate batteries,is safe to use and has a long lifespan.**

**Settings can be made through the keypad screen,and the operation is comfortable and easy.**

**Cycle Times≥3000+cycles.**

**Big brand High-performance BMS.**

**TTouch LCD screen,remote monitoring and management via APP.**

**Suitable for small households,offices,schools,etc.**

### Portability

The 15 degrees of power is enough to meet the needs of daily use, and can be carried to activities such asoutdoor,construction sites or travelling.

### Stable power supply

Able to provide continuous and stable power supply in case of power grid outage or unstable situation, ensuringthe normal operation ofcommunication facilities.
Stable power supply

### Emergency backup power

In case of power failure or emergency, the battery capacity of 15 degrees is enough to provide emergencycommunication capability or guarantee the operation of key equipment, operation of critical equipment

| Mode | GL-2432/8KWH | GL-4862/16KWH |
|---|---|---|
| Nominal voltage | 25. 6V | 51.2V |
| Over charge detection voltage | 29.2V | 58. 4V |
| Over charge release voltage | 27. 6V | 56V |
| Over discharge detection voltage | 20V | 40V |
| Over discharge release voltage | 21.6V | 43.2V |
| Standby power consumption | 12mW | 12mW |
| Automatic shutdown voltage | 20V | 40V |
| Battery Capacity | 314Ah | 314Ah |
| Energy | 8038Wh | 16076Wh |
| Weight | 65kg | 122.5kg |
| Size | 430x250x705mm | 685x250x810mm |

| HYBRID SOLAR INVERTER | GL-2432/8KWH | GL-4862/16KWH |
|---|---|---|
| Inverter Rated Power | 3200W | 4500W |
| Grid-Connected Power | 2500W | |
| AC power input voltage | Default 180VAC-265VAC,Can be set to 100VAC-280VAC | |
| AC Input Frequency | 47Hz-63Hz | |
| Maximum AC Charging Current | 60A | |
| Inverter Output Voltage Range | 220VAC/230VAC/240VAC+3% | |
| Full Load Efficiency | 92% | |
| Maximum Inverter Efficiency | 94% | |
| Maximum PVInput Current | 18A | 27A |
| Maximum Py Input Power | 3500W | 7000W |
| Maximum py Charging Current | 100A | |
| MPPT 0ptimal Operating Voltage MPPT | 360VDC | |
| MPPT Voltage Range MPPT | 45VDC-450VDC | |
| No-load loss | 25W | |
| IP rating | IP30 | |

# LIFEPO4 BATTERY
# PORTABLE POWER SOPPLY SYSTEM

**3600W 5120Wh**




**Stacking Design,integrating a hybrid inverter and lithium iron phosphate batteries,is safe to use and has a long lifespan.**

**Settings can be made through the keypad screen,and the operation is comfortable and easy.**

**Cycle Times≥3000+cycles.**

**Big brand High-performance BMS.**

**TTouch LCD screen,remote monitoring and management via APP.**

**Suitable for small households,offices,schools,etc.**

## Home-based energy storage power supply

Home based energy storage power supply for all kinds of power shortage problems.

## All-in-one design

Battery reverse control integrated design, simple wiring, wiring guard design to prevent accidental contact.

## 8 Battery Protection Functions

The battery is equipped with 8 protection functions, including anti-reverse charging, temperature protection.short-circuit protection, over-current protection, and over-current protection.protection, short-circuit protectionover-current protection, over-discharge protection, over-charging protection, over-voltage protection, andover-voltage protection. Over-charging protection, over-voltage protection, and equalization function.

| Model | GL-2432/5KWH |
|---|---|
| Nominal voltage | 25.6V |
| 0ver charge detection voltage | 29.2V |
| Over charge release voltage | 27.6V |
| 0ver discharge detection voltage | 20V |
| Over discharge release voltage | 21.6V |
| Standby power consumption | 12mW |
| Automatic shutdown voltage | 20V |
| Battery Capacity | 314Ah |
| Energy | 5120Wh |
| Weight | 62kg |
| Size | 460x320x560mm |

| HYBRID SOLAR INVERTER | GL-2432/8KWH |
|---|---|
| Inverter Rated Power | 3600W |
| Grid-Connected Power | 2500W |
| AC power input voltage | Default 180VAC-265VAC,Can be set to 100VAC-280VAC |
| AC Input Frequency | 47Hz-63Hz |
| Maximum AC Charging Current | 60A |
| Inverter Output Voltage Range | 220VAC/230VAC/240VAC±3% |
| FullLoad Efficiency | 92% |
| Maximum Inverter Efficiency | 94% |
| Maximum PVInput Current | 18A |
| Maximum PY Input Power | 3500W |
| Maximum Py Charging Current | 100A |
| MPPT Optimal Operating Voltage | 360VDC |
| MPPT Voltage Range | 45VDC-450VDC |
| No-load loss | 25W |
| IP rating | IP30 |

# SMART HOME ENERGY STORAGE

**6KWh 12kwh 16kWh**




**AC output** — **Reduced by two-thirds compared to traditional batteries**

**USB interface USB** — **Cycle Times≥3000+cycles**

**DC output DC** — **Lifetime>10 years**

**Voltage display** — **Stable and safety**

**Equipped with Fuma wheels,it is convenient for movement and installation,and is suitable for ground installation.**

**Flat design,supporting wall mounting and floor installation,saves installation space.**

**Cycle Times≥3000+cycles.**

**Big brand High-performance BMS.**

**Touch LCD screen,remote monitoring and management via APP.**

**Suitable for small households,offices,schools,etc.**

| Mode | GL-6KWH/51.2V | GL-16KWH/51.2V |
|---|---|---|
| Rated Voltage | 51.2V | |
| Over charge detection voltage | 58.4V | |
| Over charge release voltage | 56V | |
| Over discharge detection voltage | 40V | |
| Over discharge release voltage | 43.2V | |
| Standard Charging Current | 100Ah | 120A |
| Continuous Discharge Current | 150Ah | |
| Maximum Discharge Current | 200A(3S) | |
| Battery Type | Lithium Battery | |
| Battery Capacity | 6KWH/51.2V 120AH | 16KWH/51.2V 314AH |
| Standby power consumption | 12mW | |
| Automatic shutdown voltage | 40V | |
| Charge over current protection Current | 100Ah | 120A |
| Charging overcurrent protection delay | 3S | |
| Charge overcurrent protection release time | 60S | |
| Discharge overcurrent protection delay | 300S | |
| Discharge over current protection Current | 1100-1700A | |
| Discharge overcurrent protection dela | 300S | |
| Discharge overcurrent protection release time | 60S | |
| Short-circuit protection delay | 1500S | |
| Short circuit protection release time | 60S | |
| Usage life | >4000 cycles(0.5C charging,0.5C discharging),80%depth of discharge | |
| Storage Conditions | 3 months for a complete charge and discharge and recharge to more than 70% of the electricity | |
| Working Temperature | -20℃-60℃ | |
| Optimal storage Temperature | ±25°C | |
| Weight | 51.5kg | 111.5kg |
| Size | 543×222x489mm | 685x255x640mm |

## Application

**Hospital, Banks, family energy storage, Data center, Base station, Military equipment, Enterprise energy storageWind and solar complementary system and other uninterruptible energy storage power supply.**

# MPPT SOLAR CHARGE CONTROLLER

**50A 60A 80A 100A 120A**




**MPPT tracks,efficiency up to99.9%**

**Current and power limiting protection Temperature protection**

**Short circuit protection**

**Overheat protection**

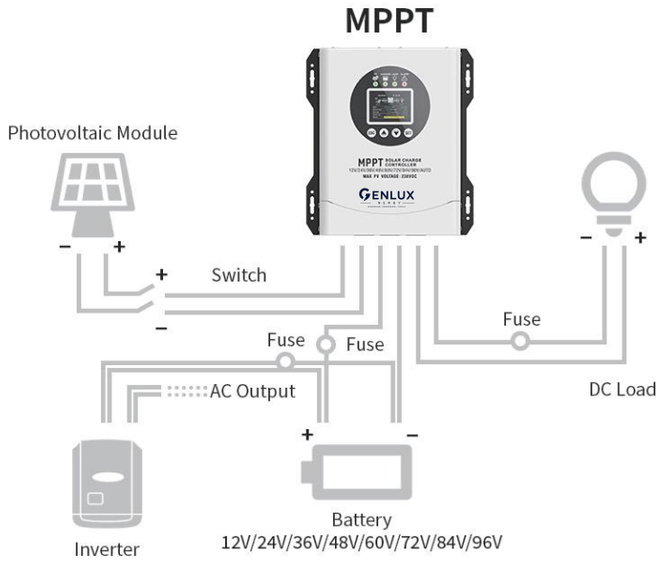
**Supports multiple battery types**

**LCD screen**

## INDUSTRIAL-STYLEEXTERIOR DESIGN

### FEATURING SIMPLICITY AND PRACTICALITY

**With a concise industrial-style exterior design,the layout is simple and rational, making it easy to operate.**




GENLUX NERGY
POWERING TOMORROW, TODAY

| Model | GL-50 | GL-60 | GL-80 | GL-100 | GL-120 |
|---|---|---|---|---|---|
| System voltage | 24V/36V/48V/60V/72V/84V/96V/192V/Auto | | | | |
| Battery type | FLD/GEL/SLD/LI/USER | | | | |
| No-load loss | <0.4W | | | | |
| Max solar input voltage | 480V(25°C), 460Y(-25°C) | | | | |
| Battery voltage | 20-192V | | | | |
| Max power point voltage range | Battery voltage+2V-400V | | | | |
| Rated charging current | 50A | 60A | 80A | 100A | 120A |
| Rated load current | 40A | | | | |
| Load operating mode | Light control/Light control +time control/Manual control(default)/Debug mode/Normally open | | | | |
| Max photovoltaic system input power | 1200W/24V<br>1800W/36V<br>2400W/48V<br>3000W/60V<br>3600W/72V<br>4200W/84V<br>4800W/96V | 1440W/24V<br>2160W/36V<br>2880W/48V<br>3600W/60V<br>4320W/72V<br>5040W/84V<br>5760W/96V | 1920W/24V<br>2880W/36V<br>3840W/48V<br>4800W/60V<br>5760W/72V<br>6720W/84V<br>7680W/96V | 2400W/24V<br>3600W/36V<br>4800W/48V<br>6000W/60V<br>7200W/72V<br>8400W/84V<br>9600W/96V | 2880W/24V<br>4320W/36V<br>5760W/48V<br>7200W/60V<br>8640W/72V<br>10080W/84V<br>11520W/96V |
| Conversion efficiency | ≥98% | | | | |
| MPPT tracking efficiency | >99% | | | | |
| Temperature compensation factor | -2mv/(°C/2V)(default ) | | | | |
| Üperating temperature | -10°C~+65°C | | | | |
| Waterproof grade | IP21 | | | | |
| N.W | 4.2kg | | 6.2kg | | |
| G.W. | 4.5kg | | 6.5kg | | |
| Electromagnetic compatibility | EN61000,EN55022,EN55024 | | | | |
| Communication method | RS485(valinnainen)WiFi(valinnainen) | | | | |
| Ititude | ≤3000m | | | | |
| Product size | 251x105×271mm | | 286x105x334mm | | |

## More application scenarios




Ac refrigerato Electric drill Water heater TV Washing machine Coffee machine

# MPPT SOLAR CHARGE CONTROLLER

**50A 60A 80A 100A 120A**




**MPPT tracks,efficiency up to99.9%**

**Current and power limiting protection**

**Temperature protection**

**Short circuit protection**

**Overheat protection**

**Supports multiple battery types**

**LCD screen**

**ADAPTIVE BATTERY SYSTEM**

## 12V 24V 48V

## MAX POWER POINT TARGET

**Improve the power generation efficiency of sola! system and save system cost**

**COMPATIBLE WITH USB PORTS USED**
**Installation without holes, prevent leakage**




GENLUX
NERGY
POWERING TOMORROW, TODAY

| Model | GL-40 | GL-50 | GL-60 | GL-80 | GL-100 | GL-120 |
|---|---|---|---|---|---|---|
| System voltage | 12V/24V/36V/48V/Auto | | | | | |
| Battery type | FLD/GEL/SLD/LI/USER | | | | | |
| No-load loss | ≤0.4T | | | | | |
| Max solar input voltage | 160V(25°℃),150V(-25*℃) | | | | | |
| Battery voltage | 9-64Y | | | | | |
| Max power point voltage range | Battery voltage+2V-150V | | | | | |
| Rated charging current | 40A | 50A | 60A | 80A | 100A | 120A |
| Rated load current | 20A | | | 60A | | |
| Load operating mode | Light control/Light control +time control/Manual control(default)/Debug mode/Normally open | | | | | |
| Max photovoltaic system input power | 480W/12V<br>960W/24V<br>1440W/36V<br>1920W/48V | 600W/12V<br>1200W/24V<br>1800W/36V<br>2400W/48V | 720W/12V<br>1440W/24V<br>2160W/36V<br>2880W/48V | 960W/12V<br>1920W/24V<br>2880W/36V<br>3840W/48V | 1200W/12V<br>2400W/24V<br>3600W/36V<br>4800W/48V | 1440W/12V<br>2880W/24V<br>4320W/36V<br>5760W/48V |
| Conversion efficiency | ≥98% | | | | | |
| MPPT tracking efficiency | >99% | | | | | |
| Temperature compensation factor | -2mv/(℃/2V)(default ) | | | | | |
| Operating temperature | -10℃~+65℃ | | | | | |
| Waterproof grade | IP21 | | | | | |
| N.W | 1.9kg | 2.65kg | 4kg | 4.3kg | | |
| G.W | 2.1kg | 2.9kg | 4.3kg | 4.6kg | | |
| Electromagnetic compatibility | EN61000,EN55022,EN55024 | | | | | |
| Communication method | RS485(valinnainen)WiFi(valinnainen) | | | | | |
| Altitude | ≤3000m | | | | | |
| Product size | 237x178x82mm | | 265×231×x91mm | | 336×267x118mm | |

**Each type of battery parameter table**

| Battery Type | GEL | SLD | FLD | USER | LI |
|---|---|---|---|---|---|
| System Volt | Auto | Auto | Auto | 12V/24V/36V/48V/Auto | 12V/24V/36V/48V |
| EQU | 14.2V | 14.6V | 14.8V | ⊏ ═ ⊐ | ⌐ ⎽═⎽ ¬ |
| BST | 14.2V | 14.4V | 14.6V | ⌐ ⎽═⎽ ¬ | ⌐ ⎽═⎽ ¬ |
| FLD | 13.8V | 13.8V | 13.8V | Defined by GEL | |
| LRV | 12.6V | 12.6V | 12.6V | | |
| LDV | 11. 1V | 11.1V | 11.1V | | |

# MPPT SOLAR CHARGE CONTROLLER

**50A 60A 80A 100A 120A**

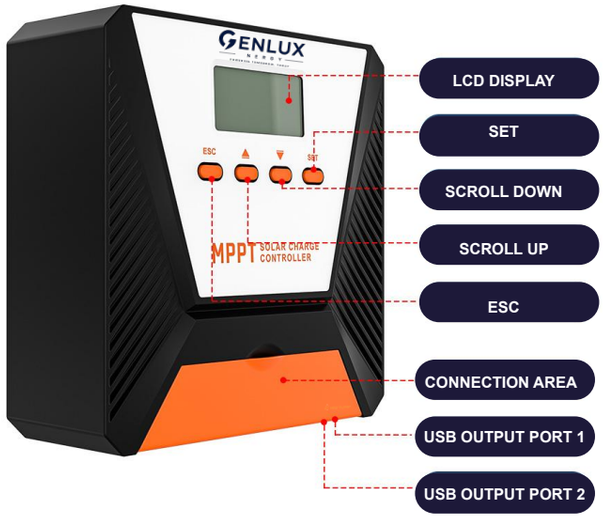



- MPPT tracks,efficiency up to99.9%
- Current and power limiting protection
- Temperature protection
- Short circuit protection
- Overheat protection
- Supports multiple battery types
- LCD screen

## INDUSTRIAL-STYLEEXTERIOR DESIGN

### FEATURING SIMPLICITY AND PRACTICALITY

**With a concise industrial-style exterior design,the layout is simple and rational, making it easy to operate.**




GENLUX ENERGY
POWERING TOMORROW, TODAY

| Model | GL-40 | GL-50 | GL-60 | GL-80 | GL-100 | GL-120 |
|---|---|---|---|---|---|---|
| System voltage | 12V/24V/Auto | | | | | |
| Battery type | FLD/GEL/SLD/LI/USER | | | | | |
| No-load loss | ≤0.4W | | | | | |
| Max solar input voltage | 50Vdc | | | 100Vdc | | |
| Battery voltage | 9-32V | | | | | |
| Max power point voltage range | Battery voltage+2V-50V | | | Battery voltage+2V-100V | | |
| Rated charging current | 10A | 20A | 30A | 40A | 50A | 60A |
| Rated load current | 20A | | | | | |
| Load operating mode | Light control/Light control +time control/Manual control(default)/Debug mode/Normally open | | | | | |
| Max photovoltaic system input power | 120W/12V<br>240W/24V | 240W/12V<br>480W/24V | 360W/12V<br>720W/24V | 480W/12V<br>960W/24V | 600W/12V<br>1200W/24V | 720W/12V<br>1440W/24V |
| Conversion efficiency | ≥98% | | | | | |
| MPPTtracking efficiency | >99% | | | | | |
| Temperature compensation factor | -2mv/(℃/2V)(default ) | | | | | |
| Operating temperature | -10℃~+65℃ | | | | | |
| Waterproof grade | IP21 | | | | | |
| N.W | 0.4kg | | 1.08kg | | 1.43kg | |
| G.W | 0.52kg | | 1.3kg | | 1.65kg | |
| Electromagnetic compatibility | EN61000,EN55022,EN55024 | | | | | |
| Communication method | RS485(valinnainen)WiFi(valinnainen) | | | | | |
| Altitude | ≤3000m | | | | | |
| Product size | 237x178x82mm | | 265×231x91mm | | 336×267x118mm | |

# MPPT SOLAR CHARGE CONTROLLER

**50A/60A/80A/100A/120A**




- MPPT tracks,efficiency up to99.9%
- Current and power limiting protection
- Temperature protection
- Short circuit protection
- Overheat protection
- Supports multiple battery types
- LCD screen

## Internal Structure






GENLUX ENERGY
POWERING TOMORROW, TODAY

| Model | GL-40 | GL-50 | GL-60 | GL-80 | GL-100 | GL-120 |
|---|---|---|---|---|---|---|
| System voltage | 12V/24V/36V/48V/Auto | | | | | |
| Battery type | FLD/GEL/SLD/LI/USER | | | | | |
| No-load loss | ≤0.4W | | | | | |
| Max solar input voltage | 160V(25°C), 150V(-25°C) | | | | | |
| Battery voltage | 9-64V | | | | | |
| Max power point voltage range | Battery voltage+2V-150V | | | | | |
| Rated charging current | 40A | 50A | 60A | 80A | 100A | 120A |
| Rated load current | 20A | | | 60A | | |
| Load operating mode | Light control/Light control +time control/Manual control(default)/Debug mode/Normally open | | | | | |
| Max photovoltaic system input power | 480W/12V<br>960W/24V<br>1440W/36V<br>1920W/48V | 600W/12V<br>1200W/24V<br>1800W/36V<br>2400W/48V | 720W/12V<br>1440W/24V<br>2160W/36V<br>2880W/48V | 960W/12V<br>1920W/24V<br>2880W/36V<br>3840W/48V | 1200W/12V<br>2400W/24V<br>3600W/36V<br>4800W/48V | 1440W/12V<br>2880W/24V<br>4320W/36V<br>5760W/48V |
| Conversion efficiency | <98% | | | | | |
| MPPTtracking efficiency | >99% | | | | | |
| Temperature compensation factor | -2mv/(°C/2V)(default) | | | | | |
| Operating temperature | -10℃~+65℃C | | | | | |
| Waterproof grade | IP21 | | | | | |
| N.W | 1.36kg | | | 2.9kg | | |
| G.W | 1.54kg | | | 3.15kg | | |
| Electromagnetic compatibility | EN61000,EN55022, EN55024 | | | | | |
| Communication method | RS485(valinnainen)WiFi(valinnainen) | | | | | |
| Altitude | ≤3000m | | | | | |
| Product size | 242x188x67mm | | | 313x225x105mm | | |

## More application scenarios



# PWM SOLAR CHARE CONTROLLER

**50A 60A 80A 100A**

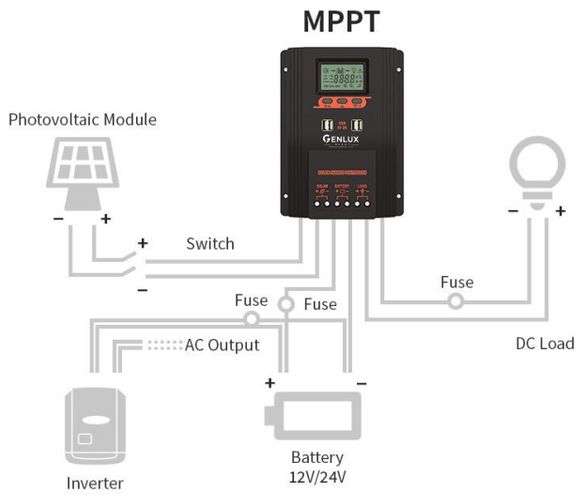



## INDUSTRIAL-STYLEEXTERIOR DESIGN

## FEATURING SIMPLICITY AND PRACTICALITY

**With a concise industrial-style exterior design,the layout is simple and rational, making it easy to operate.**




| Model | GL-M50/BH-R50 | GL-M60/BH-R60 | GL-M80/BH-R80 | GL-M100/BH-R100 |
|---|---|---|---|---|
| System voltage | 12V/24V/48V/Auto | | | |
| Battery type | FLD/GEL/SLD/LI/USER | | | |
| No-load loss | ≤0.4W | | | |
| Max solar input voltage | 100Vdc | | | |
| Battery voltage | 9-64V | | | |
| Max power point voltage range | Battery voltage +2V-100V | | | |
| Rated charging current | 50A | 60A | 80A | 100A |
| Rated load current | 20A | | | |
| Load operating mode | Light control/light control +time control/Manual control (default)/Debug mode/Normally open | | | |
| USB output | 5V2A | | | |
| Max photovoltaic system input power | 600W/12V<br>1200W/24V<br>2400W/48V | 720W/12V<br>1440W/24V<br>2880W/48V | 960W/12V<br>1920W/24V<br>3840W/48V | 1200W/12V<br>2400W/24V<br>4800W/48V |
| MPPT tracking efficiency | >99% | | | |
| Temperature compensation factor | -2mv/(°C/2V)(default) | | | |
| Operating temperature | -10℃~+65℃C | | | |
| Waterproof grade | IP21 | | | |
| N.W | 0.52kg | | 0.7kg | |
| G.W | 0.6kg | | 0.8kg | |
| Product size | 184×176x53mm | | 234x176x67mm | |

234x174x63.5mm

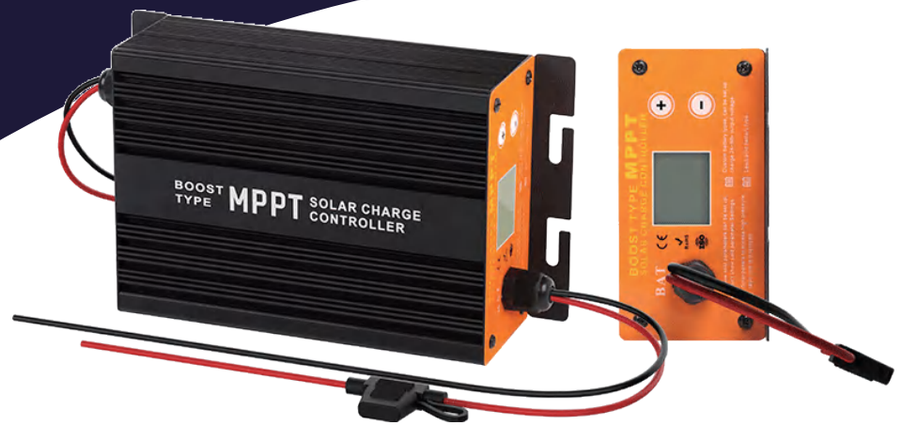
184x174x53mm



# MPPT

# BOOST TYPE SOLAR CHARGE CONTROLLER

**300W 400W 600W**

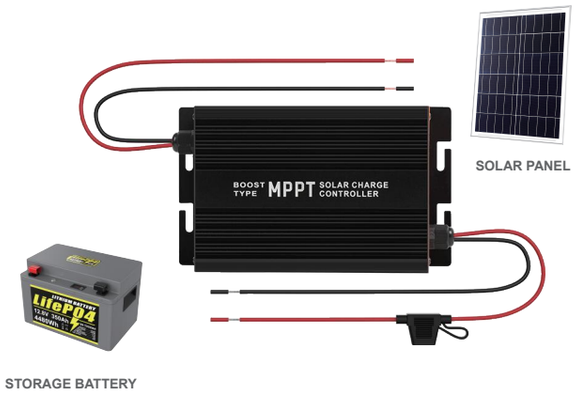



**IP65 Waterproof** **Acid & AlkaliResistant**

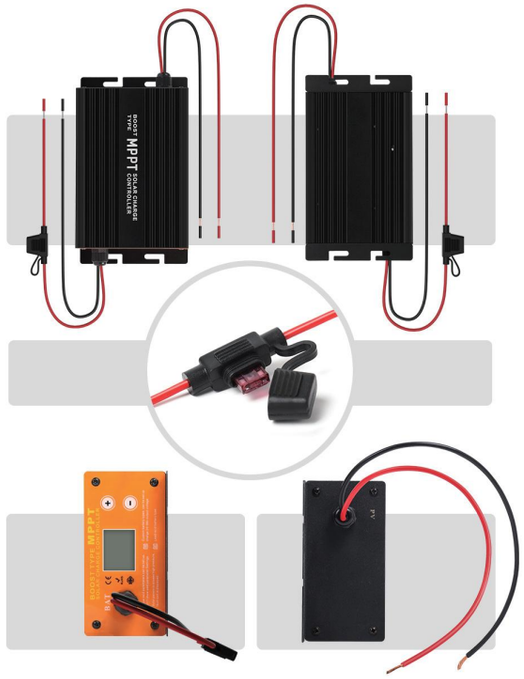
**Waterproof Connector** **Metal Enclosure**

**AntioxidantTreatment** **Concise Design**

## INSTALLATION AND WIRING




## PARAMETERINFORMATION



| Model | GL-300 | GL-400 | GL-600 |
|---|---|---|---|
| Solar input voltage | 12V-50V | | |
| Rated charging current | 16A | 22A | 33A |
| Max photovoltaic system input power | 300W | 400W | 600W |
| Battery type | 24V/36V/48V(Acquiesce)/60Y/72V/USER | | |
| Battery overcharge protection voltage | 28.8V(24V System)/43.2V(36V System)/57.6V(48V System)<br>72V(60V System)/86.4V(72VSrstem)/USRE | | |
| No-load loss | <20mA | | |
| Conversion efficiency | >97% | | |
| MPPT tracking efficiency | >99% | | |
| 0perating temperature | -10℃~+65℃ | | |
| Waterproof grade | IP65 | | |
| N.W | 0.35kg | 0.38kg | 0.48kg |
| G.W | 0.45kg | 0.5kg | 0.58kg |
| Electromagnetic compatibility | EN61000,EN55022,EN55024 | | |
| Product size | 133x93x45mm | 153x93x45mm | 183x93x45mm |

## EFFICIENT& STABLE POWER GENERATION FOR MULTIPLE INDUSTRIES.

**Applicable to solar power systems, smart homes solar chargers, s olar monitoring systems, solar light boxes, solar billboards, solar warning lights, etc. It meets the needs ofvarious industries.**



# MPPT

# SOLAR MICROGRID TIE - IN INVERTER

**300W 350W 400W 600W 700W 800W**




**Output powe up to 700VA.**

**With reactive power compensation function, meet the requirements of NB/T 32004-2018.**

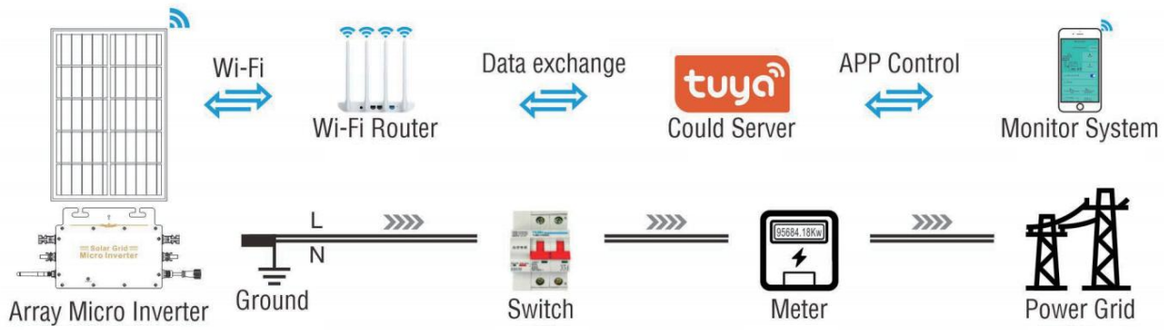
**Each component is equipped with individual MPPT and data monitoring,which provides more power generation and is easier to maintain.**

**Each micro inverter can be connected to 2pcs components for faster installation.**

**2.4G communication antenna external,more powerful communication capability.**

**Meet the most stringent North American express requirements to make photovoltaic systems safer.**

**MI series solar grid micro inverter, output power800W, suitable for small power photovoltaic modules Each solar grid micro inverter, can be connected to 2PCS PV modules for easy on-site installation.The AC bus installation method optimizes theinstallation process and is a cost-effective and safephotovoltaic project solution.**






GENLUX ENERGY
POWERING TOMORROW, TODAY

| Model | GL-600 | GL-700 | GL-800 |
|---|---|---|---|
| Power(W) | Max 625W | Max 750W | Max875W |
| Peak power MPPT voltage range | 30-55V | | |
| 0pen-voltage(V) | 18V | | |
| Working voltagerange(V) | 18-55V | | |
| Max input voltage(V) | 55V | | |
| Max input current(A) | 21A | 24A | 30A |
| Max input short-load current(A) | 30A | | |
| Maximum feedback current of the array(A) | 0 | | |
| Rated output power (W) | 600W | 700W | 800W |
| Rated output current (A) | 5.0A/2. 6A | 5.8A/3.0A | 6. 6A/3. 4A |
| Nominal output voltage range(V) | @120VAC/@230VAC Auto | | |
| Nominal frequency/range(Hz) | @50Hz:47-53Hz/@60Hz:57-63Hz | | |
| Power factor | >0.95 | | |
| 0utput current harmonic distortion | THD<3% | | |
| Maximum units per branch | 6 PCS | | |
| Peak Micro Inverter Efficiency | 93% | | |
| Nominal MPPT efficiency | 0. 99 | | |
| Night power consumption(mW) | <0.5W | | |
| Ambient temperature range(°C) | -20”℃-65”℃ | | |
| Storage temperature range(℃) | -40℃-75℃ | | |
| Waterproof grade | 0utdoor Nema 3r(IP65) | | |
| Heat dissipation method | Natural Convection(no Fans) | | |
| Pollution level | Pd3 | | |
| Product size | 314x179x5lmm | | |
| N.W | IP65:1.75KG IP67:2.28KG | | |
| G. | IP65:2.22KG IP67:2.75KG | | |
| Means | 54.5X38X24CM(6PCS) | | |
| Power transmission mode | Reverse transmission,load priority | | |
| Guarantee | 5year | | |
| Electrical standards | EN 50549-1:2019,EN 50549-2:2019<br>EN 61000-6-1:2007,EN 61000-6-3:2007+A1:2011+AC2012<br>IEC/EN 62109-1:2010,IEC/EN 62109-2:2011 | | |

# Flexible solar panel

# Industrial and Commercial Series

**100W 200W 225W 430W 460W 520W 545W**



Lightweight components without frames have extremely low weight, zero penetration, no need for brackets, easy to install and simple to construct. They are suitable for various innovative application fields. They can perfectly adhere to all kinds of surfaces without affecting their aesthetic appeal.

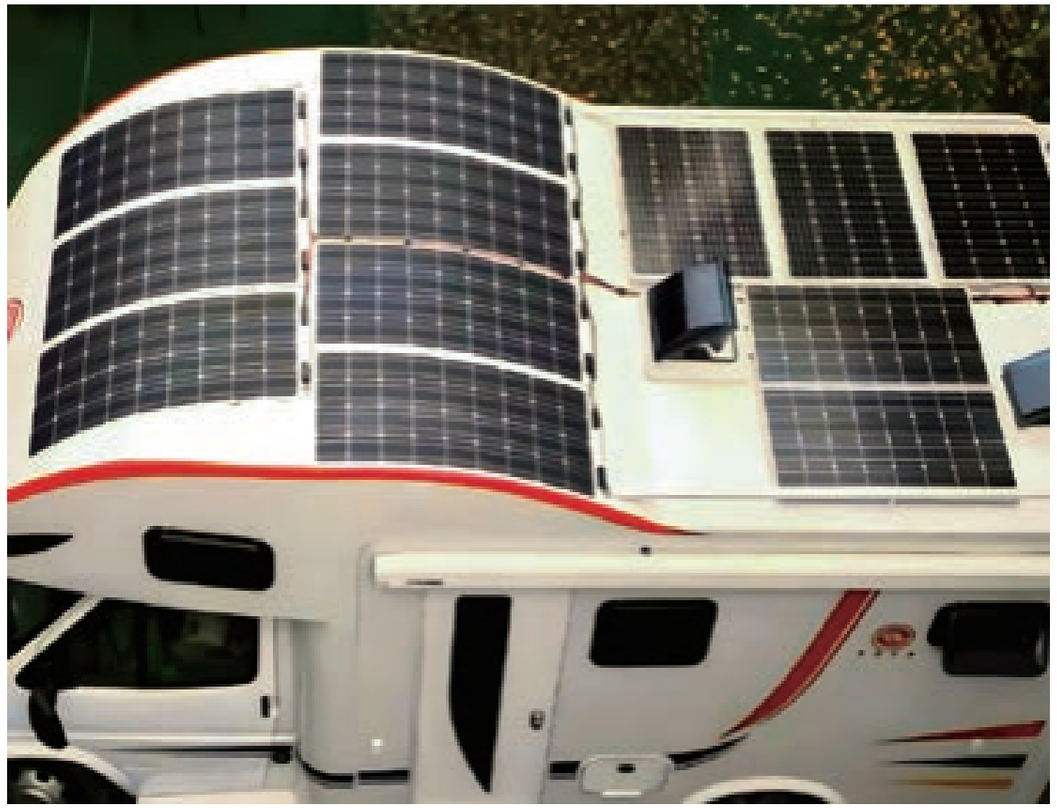
Ultralight

Quick installation

Aesthetic

Safety

| | GL-DB9A | | | | | | |
|---|---|---|---|---|---|---|---|
| Power(W) | 100W | 200W | 225W | 430W | 460W | 520W | 545W |
| Conversion Rate | ≥23% | | ≥25% | ≥23% | ≥24.8% | ≥23% | ≥25% |
| Surface Material | ETFE | | | | | | |
| Voltage(V) | 24V | | 36V | 34V | 36V | 41V | 43V |
| Current(A) | 4.16A | 8.33A | 6.25A | 12.64A | 12.77A | 12.68A | 12.67A |
| Voc | 28.3V | | 42.4V | 40.8V | 42.4V | 48.3V | 50.74V |
| Isc | 4.4A | 8.82A | 6.62A | 13.9A | 13.53A | 13.44A | 13.43A |
| Output Port | 0.9m MC4 | | | | | | |
| Temperature Rate | -20℃～+60℃ | | | | | | |
| IP Rate | IP67 | | | | | | |
| Size | 590*920*3mm | 774*1356*3mm | 1140*1000*3mm | 2236*1000*3mm | 2236*1000mm | 2256*1200*3mm | 2256*1200*3mm |
| Weight | 1.9kg | 3.72kg | 3.85kg | 8.1kg | 8.1kg | 9.3kg | 9.3kg |



# Portable Solar panel

## Lightweight integrated lamination series

**100W 150W 200W 300W 400W**




Portable Solar Power Panel Series Products Are Based On Lfpt Lightweight Module Technol-
ogy And Adopt A Multi-folding Design. They Can Be Personalized And Customized According To The Needs Of Di?erent Application Scenarios. They Can Be Used For Various Types Of Portable Energy Storage Power Supplies, Home Energy Storage Power Supplies, And Rv Energy Storage Power Supplies And Various Types Of Batteries Provide Charging Services. The MPPT Controller Can Also Be Installed Directly For Mobile Communication And Electronic Devices Such As
Mobile Phones "Ready" For Direct Charging.

GENLUX
NERGY
POWERING TOMORROW, TODAY

| Model | GL-CB3A | | | | |
|---|---|---|---|---|---|
| Power(W) | 100W | 150 W | 200 W | 300 W | 400 W |
| Conversion Rate | ≥25% | ≥25% | ≥25% | ≥23% | ≥23% |
| Voltage(V) | 19.8V | 19.8V | 19.8V | 36V | 46V |
| Current(A) | 5.05A | 7.57A | 10.1A | 8. | 8. |
| Voc | 23.3V | 23.3V | 23.3V | 33A4 | 69A5 |
| Isc | 5.35A | 8.02A | 10.7A | 2.4V8 | 4.2V9 |
| Output | XT30: 19.8V 5.05A<br>Type-C: 5V 3A/9V 3A/12V 3A<br>USB： 5V 3A/9V 2A/12V 1.5A | | | | |
| Temperature Rate | -20℃～+60℃ | | | | |
| IP Rate | IP 67 | | | | |
| Folded Size | 590*582.6*50mm | 590*585.1*50mm | 590*587.6*50mm | 776*660.62*50mm | 906*717.2*50mm |
| Unfolded Size | 1038*590*3mm | 1503*590*3mm | 1973*590*3mm | 2265*776*3mm | 2492*906*3mm |
| Weight | 3.75kg | 4.95kg | 6.15kg | 8.85kg | 11kg |



# Portable Solar Charger

**15W 23W**






portablesolarchargerproductisbasedonLFPT lightweight module technology, featuring a multi-fold design that makes it lighter, thinner, and more portable. The product incorporates MPPT fast-charging technology and supports QC.0 and QC3.0 charging protocols, enabling direct rapid charging for electronic devices such as mobile phones, power banks, and tablets. It is essentially a generator in your pocket. again.With her, you'll never have to worry about running out of power during outdoor trips.

| Model | GL-AC4A | |
|---|---|---|
| Power(W) | 15W | 23W |
| Conversion Rate | ≥23% | ≥23% |
| Output | Type-C:5V 2.4A | Type-C:5V 3A/9V 2A/12V 1.5A |
| IP Rate | IP 67 | IP 67 |
| Folded Size | 200*105*15mm | 200*105*25mm |
| Unfolded Size | 485*200*12mm | 650*200*12mm |
| Weight | 0.25kg | 0.5kg |

