

**COSUPER**



RENEWABLE ENERGY  
POWER PRODUCTS

# OFF GRID

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ENERGY STORAGE SYSTEM  
INVERTER / CHARGERS  
POWER INVERTERS

# ABOUT US

COSUPER has kept focus on renewable energy and off grid systems for more than ten years to provide the reliable power products worldwide.

All COSUPER's products are designed for the integrated electrical systems. To satisfy the rapid growing needs of renewable energy and clean power, COSUPER engineers develops the reliable power products to let people enjoy the clean and continuous power.

Besides offering sine wave power products, COSUPER also have extensive experience on energy solution providing. With full range power products, customers get variety systems suggestions and correct configuration to meet the needs.

Manufactured in China with high quality components and qualified by ETL and CE to offer users with safe power source in different conditions. COSUPER works closely with users to design and produce the reliable and safe inverters, inverter chargers and the integrated power systems.

For more products, visit our web site:  
[WWW.COSUPER.COM](http://WWW.COSUPER.COM)

# CONTENTS

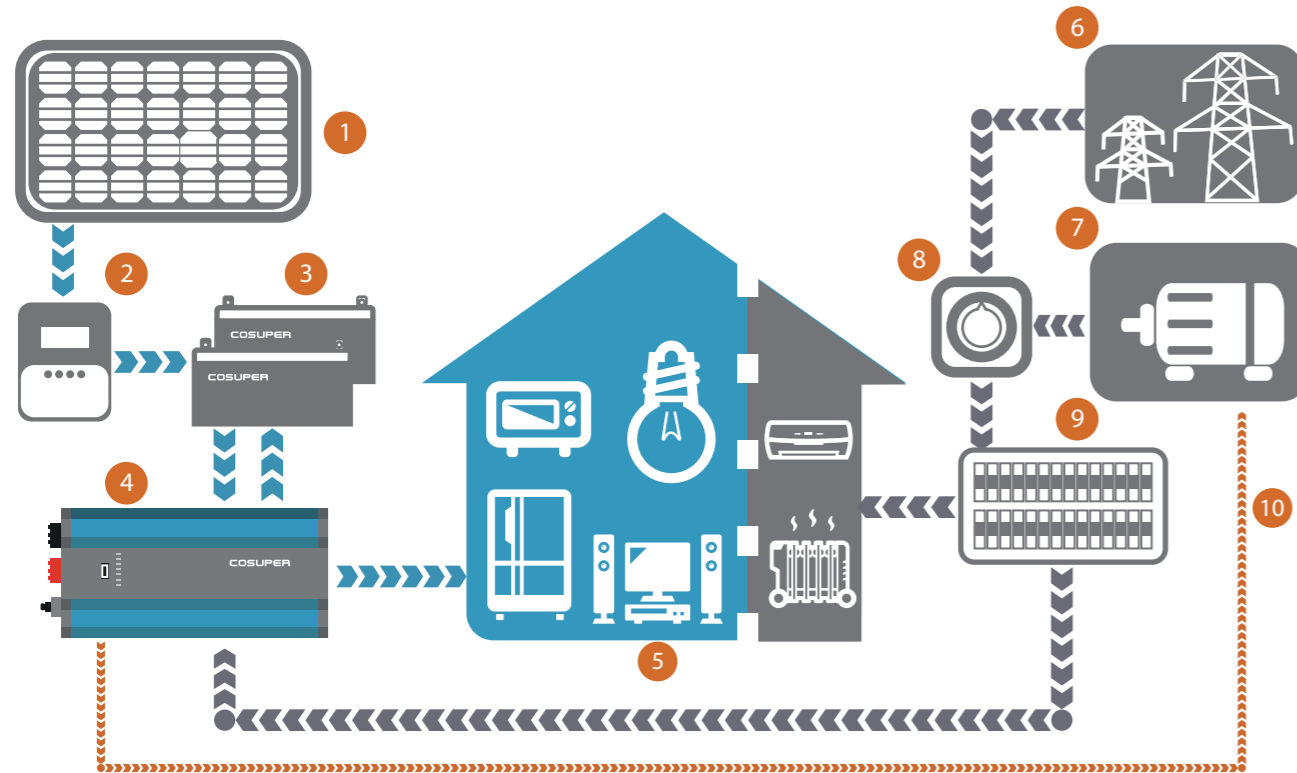
|                                      |    |
|--------------------------------------|----|
| SMART INVERTER CHARGERS .....        | 3  |
| RESIDENTIAL INVERTER CHARGERS .....  | 5  |
| HF SOLAR INVERTER CHARGER .....      | 7  |
| HF INDEPENDENT HYBRID INVERTER ..... | 8  |
| HF DC-AC INVERTER .....              | 9  |
| HF U.P.S INVERTER .....              | 10 |
| HF THREE PHASE INVERTER .....        | 11 |
| LF THREE PHASE INVERTER .....        | 12 |
| MODIFIED WAVE INVERTER .....         | 13 |
| BATTERIES .....                      | 14 |
| ACCESSORIES .....                    | 15 |

# RENEWABLE ENERGY SYSTEM

## BACKUP POWER DIAGRAM

Backup power system is different from the interactive solar grid-tie system which feeds the electricity back to grid, it will function when the AC input fails or unstable utility AC happens. The core part is the inverter charger. Inverter charger works as the backup power supply which take action when AC power fails.

COSUPER off grid power products provide the reliable power. With model available in 12, 24 and 48V configurations and power range from 1000 watts to 12000 watts, users can get the certain power solution for a variety of situation.

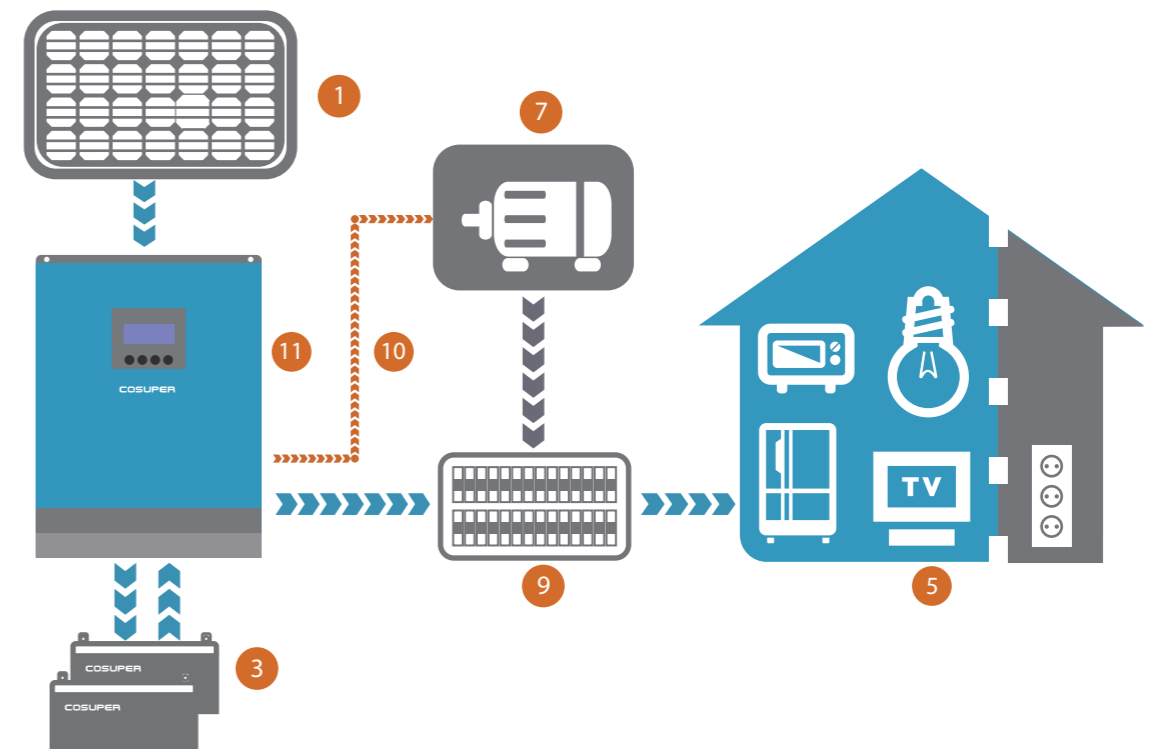
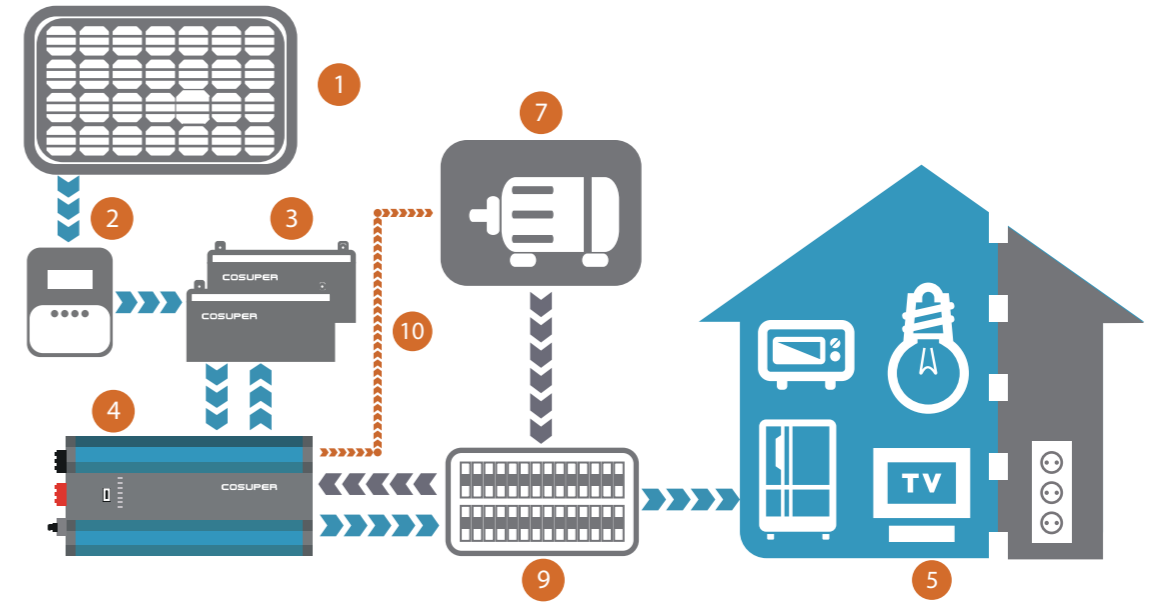


- 1 Solar panels
- 2 MPPT solar charge controller
- 3 Battery bank
- 4 Inverter charger
- 5 Household appliances
- 6 Grid(Utility AC power)
- 7 Generator
- 8 Manual transfer switch
- 9 Main panel 120V or 230V
- 10 Inverter gen start signal
- 11 Solar inverter charger

# RENEWABLE ENERGY SYSTEM

## OFF GRID POWER DIAGRAM

In the condition of off grid, without utility power input, all the system can be run by inverter or backup generator. Inverter draws power from battery and power all the loads. Use integrated solar inverter, users can get a easier installation.



# CPT SERIES

## 1000 - 3000W INVERTER CHARGER

CPT pure sine wave inverter charger is the combination of inverter, battery charger and AC auto transfer switch. With the backup UPS function, when utility AC power fails, the transfer switch and relay will be energized to switch to DC power source to maintain all the power system working continuously.



- Battery voltage - 12V/ 24V/ 48V available
- Charger - Lithium compatibility
- PERFORM - Heavy duty design
- Topology - Low frequency

### CPT SERIES MAIN FEATURES

#### DC/AC SOURCE AUTO SWITCH

CPT inverter charger works with the optional source priority. With nominal AC and DC power input, no matter AC or DC fails, CPT will switch to the another source to ensure the loads keeping work.

#### LITHIUM BATT CHARGER

Lithium battery requires a different charging mode from the traditional 3-stage charging. COSUPER designed the charging software to provide users with more options of battery charging.

#### A.V.R(OPTIONAL)

A.V.R is the abbreviation of Automatical voltage regulator. COSUPER combines the A.V.R function into CPT unit to gives a constant and correct output voltage in bypass mode. This protects the appliances from being destroyed by bumping utility voltage

#### STANDBY MODE

It is also named as POWER SAVER mode in the inverter charger. It helps preserve battery capacity over long period of no operation.

# CPT SERIES

## 4000 - 6000W INVERTER CHARGER

CPT pure sine wave inverter charger is the combination of inverter, battery charger and AC auto transfer switch. With the backup UPS function, when utility AC power fails, the transfer switch and relay will be energized to switch to DC power source to maintain all the power system working continuously.



- Battery voltage - 24V/ 48V available
- Charger - Lithium compatibility
- PERFORM - Heavy duty design
- Topology - Low frequency

### CPT SERIES MAIN FEATURES

#### DC/AC SOURCE AUTO SWITCH

CPT inverter charger works with the optional source priority. With nominal AC and DC power input, no matter AC or DC fails, CPT will switch to the another source to ensure the loads keeping work.

#### LITHIUM BATT CHARGER

Lithium battery requires a different charging mode from the traditional 3-stage charging. COSUPER designed the charging software to provide users with more options of battery charging.

#### A.V.R(OPTIONAL)

A.V.R is the abbreviation of Automatical voltage regulator. COSUPER combines the A.V.R function into CPT unit to gives a constant and correct output voltage in bypass mode. This protects the appliances from being destroyed by bumping utility voltage

#### STANDBY MODE

It is also named as POWER SAVER mode in the inverter charger. It helps preserve battery capacity over long period of no operation.

| MODELS                            | CPT1000                         | CPT1500           | CPT2000           | CPT3000           |
|-----------------------------------|---------------------------------|-------------------|-------------------|-------------------|
| <b>INVERTER SPECIFICATIONS</b>    |                                 |                   |                   |                   |
| Continuous power                  | 1000 watts                      | 1500 watts        | 2000 watts        | 3000 watts        |
| Surge power                       | 3000 watts                      | 4500 watts        | 6000 watts        | 9000 watts        |
| AC output voltage                 | 120 VAC +/- 5%; 230VAC +/- 3%   |                   |                   |                   |
| AC output frequency               | 50/ 60Hz +/- 0.5%               |                   |                   |                   |
| AC output waveform                | Pure sine wave (THD < 5%)       |                   |                   |                   |
| Rated DC voltage                  | 12/ 24 VDC                      | 12/ 24/ 48 VDC    | 12/ 24/ 48 VDC    | 12/ 24/ 48 VDC    |
| Charge current                    | 35/ 20 ADC                      | 45/ 25/ 15 ADC    | 65/ 30/ 20 ADC    | 75/ 45/ 30 ADC    |
| Max. efficiency                   | 87%                             | 88%               | 88%               | 88%               |
| Bypass Current                    | 20 AAC                          | 20 AAC            | 30 AAC            | 30 AAC            |
| Output Phase                      | Single                          | Single            | Single            | Single            |
| <b>ENVIRONMENT SPECIFICATIONS</b> |                                 |                   |                   |                   |
| Operating temperature             | -20°C to +50°C                  |                   |                   |                   |
| <b>GENERAL INFORMATION</b>        |                                 |                   |                   |                   |
| Dimension(LxWxH)                  | 45.5x25.0x18.5 cm               | 45.5x25.0x18.5 cm | 52.5x25.0x18.5 cm | 52.5x25.0x18.5 cm |
| Weight                            | 15 kg                           | 17 kg             | 20 kg             | 24 kg             |
| Warranty                          | 18 months                       |                   |                   |                   |
| Remote                            | PTM-12, CR10                    |                   |                   |                   |
| Battery type                      | LiFePO4, AGM, GEL or Customized |                   |                   |                   |

| MODELS                            | CPT4000                         | CPT5000           | CPT6000           |
|-----------------------------------|---------------------------------|-------------------|-------------------|
| <b>INVERTER SPECIFICATIONS</b>    |                                 |                   |                   |
| Continuous power                  | 4000 watts                      | 5000 watts        | 6000 watts        |
| Surge power                       | 12000 watts                     | 15000 watts       | 18000 watts       |
| AC output voltage                 | 120 VAC +/- 5%; 230VAC +/- 3%   |                   |                   |
| AC output frequency               | 50/ 60Hz +/- 0.5%               |                   |                   |
| AC output waveform                | Pure sine wave (THD < 5%)       |                   |                   |
| Rated DC voltage                  | 24/ 48 VDC                      | 24/ 48 VDC        | 24/ 48 VDC        |
| Charge current                    | 65/ 35 ADC                      | 70/ 40 ADC        | 75/ 50 ADC        |
| Max. efficiency                   | 88%                             | 89%               | 88%               |
| Bypass Current                    | 40 AAC                          | 40 AAC            | 40 AAC            |
| Output Phase                      | Single                          | Single            | Single            |
| <b>ENVIRONMENT SPECIFICATIONS</b> |                                 |                   |                   |
| Operating temperature             | -20°C to +50°C                  |                   |                   |
| <b>GENERAL INFORMATION</b>        |                                 |                   |                   |
| Dimension(LxWxH)                  | 65.0x25.0x18.5 cm               | 65.0x25.0x18.5 cm | 65.0x25.0x18.5 cm |
| Weight                            | 35 kg                           | 43 kg             | 45 kg             |
| Warranty                          | 18 months                       |                   |                   |
| Remote                            | PTM-12, CR10                    |                   |                   |
| Battery type                      | LiFePO4, AGM, GEL or Customized |                   |                   |

# CPS SERIES

## 8000 - 12000W INVERTER CHARGER

CPS heavy duty inverter charger is specifically designed for residential and commercial use. Negligible switch time between DC and utility power source ensures no interrupted power supply for PC. CPS makes it easier to get MAX 12KW output power strengthens the whole off grid system electricity supply by 48V battery systems.



# LPT SERIES

## 1000 - 6000W INVERTER CHARGER

LPT series inverter charger is a pure sine wave inverter line for the loads in house specifically for off grid energy storage system. The power range is from 1KW to 6KW with 12, 24 and 48VDC models, providing users with the reliable and cost effective power source.



Mobilehouse Solar Off Grid Solar

### CPS SERIES MAIN FEATURES

#### BACKUP U.P.S

CPS inverter charger works with the optional source priority. With nominal AC and DC power input, no matter AC or DC fails, CPS will switch to the another source to ensure the loads keeping work.

#### LITHIUM BATT CHARGER

Lithium battery requires a different charging mode from the traditional 3-stage charging. COSUPER designed the charging software to provide users with more options of battery charging.

#### A.V.R (Optional)

A.V.R is the abbreviation of Automatical voltage regulator. COSUPER combines the A.V.R function into CPT unit to gives a constant and correct output voltage in bypass mode. This protects the appliances from being destroyed by bumping utility voltage

#### STANDBY MODE

It is also named as POWER SAVER mode in the inverter charger. It helps preserve battery capacity over long period of no operation.

### LPT SERIES MAIN FEATURES

#### U.P.S FUNCTION

LPT inverter charger works with the optional source priority. With nominal AC and DC power input, no matter AC or DC fails, LPT will switch to the another source to ensure the loads keeping work.

#### DIGITAL DISPLAY

Alphanumeric display gives the information of battery voltage, output voltage, frequency, input AC voltage and additional operation codes.

#### STANDBY MODE

It is also named as POWER SAVER mode in the inverter charger. It helps preserve battery capacity over long period of no operation. LPT automatically start work as soon as the output power equal to or larger than 50 watts. If not it will keep energy saving to protect battery from being exhausted.



RV Solar Mobilehouse Solar Off Grid Solar

- Battery voltage - 48V available
- Charger - Lithium compatibility
- PERFORM - Heavy duty design, U.P.S
- Topology - Low frequency

- Battery voltage - 12V/ 24V/ 48V available
- Charger - 3 Stage AC charger
- PERFORM - Heavy duty design
- Topology - Low frequency

| MODELS                            | CPS8000                         | CPS10000          | CPS12000          |
|-----------------------------------|---------------------------------|-------------------|-------------------|
| <b>INVERTER SPECIFICATIONS</b>    |                                 |                   |                   |
| Continuous power                  | 8000 watts                      | 10000 watts       | 12000 watts       |
| Surge power                       | 24000 watts                     | 30000 watts       | 36000 watts       |
| AC output voltage                 | 120 VAC +/- 5%; 230VAC +/- 3%   |                   |                   |
| AC output frequency               | 50/ 60Hz +/- 0.5%               |                   |                   |
| AC output waveform                | Pure sine wave (THD < 5%)       |                   |                   |
| Rated DC voltage                  | 48 VDC                          | 48 VDC            | 48 VDC            |
| Charge current                    | 55 ADC                          | 70 ADC            | 80 ADC            |
| Max. efficiency                   | 87%                             | 88%               | 86%               |
| Bypass current                    | 80 AAC                          | 80 AAC            | 80 AAC            |
| Output phase                      | Single                          | Single            | Single            |
| <b>ENVIRONMENT SPECIFICATIONS</b> |                                 |                   |                   |
| Operating temperature             | -20°C to +50°C                  |                   |                   |
| <b>GENERAL INFORMATION</b>        |                                 |                   |                   |
| Dimension(LxWxH)                  | 63.0x50.5x21.0 cm               | 63.0x50.5x21.0 cm | 63.0x50.5x21.0 cm |
| Weight                            | 65 kg                           | 70 kg             | 77 kg             |
| Warranty                          | 18 months                       |                   |                   |
| Remote                            | PTM-12, CR10                    |                   |                   |
| Battery type                      | LiFePO4, AGM, GEL or Customized |                   |                   |

| MODELS                            | LPT1000                       | LPT2000        | LPT3000                              | LPT4000     | LPT5000                              | LPT6000     |
|-----------------------------------|-------------------------------|----------------|--------------------------------------|-------------|--------------------------------------|-------------|
| <b>INVERTER SPECIFICATIONS</b>    |                               |                |                                      |             |                                      |             |
| Continuous power                  | 1000 watts                    | 2000 watts     | 3000 watts                           | 4000 watts  | 5000 watts                           | 6000 watts  |
| Surge power                       | 3000 watts                    | 6000 watts     | 9000 watts                           | 12000 watts | 15000 watts                          | 18000 watts |
| AC output voltage                 | 120 VAC +/- 5%; 230VAC +/- 3% |                |                                      |             |                                      |             |
| AC output frequency               | 50/ 60Hz +/- 0.5%             |                |                                      |             |                                      |             |
| AC output waveform                | Pure sine wave (THD < 5%)     |                |                                      |             |                                      |             |
| Rated DC voltage                  | 12/ 24 VDC                    | 12/ 24/ 48 VDC | 12/ 24/ 48 VDC                       | 24/48 VDC   | 24/48 VDC                            | 24/ 48 VDC  |
| Charge current                    | 35/ 20 ADC                    | 65/ 30/20 ADC  | 75/ 45/ 30 ADC                       | 65/ 35 ADC  | 70/ 40 ADC                           | 75/ 50 ADC  |
| Max. efficiency                   | 86%                           | 87%            | 88%                                  | 88%         | 86%                                  | 86%         |
| Bypass current                    | 20 AAC                        | 20 AAC         | 30 AAC                               | 40 AAC      | 40 AAC                               | 40 AAC      |
| Output phase                      | Single                        | Single         | Single                               | Single      | Single                               | Single      |
| <b>ENVIRONMENT SPECIFICATIONS</b> |                               |                |                                      |             |                                      |             |
| Operating temperature             | -20°C to +50°C                |                |                                      |             |                                      |             |
| <b>GENERAL INFORMATION</b>        |                               |                |                                      |             |                                      |             |
| Dimension(LxWxH)                  | LPT1000: 42.5x25.0x18.1 cm    |                | LPT2000 & LPT3000: 50.0x25.0x18.1 cm |             | LPT4000 - LPT6000: 62.5x25.0x18.1 cm |             |
| Weight                            | 35 kg                         | 35 kg          | 35 kg                                | 35 kg       | 35 kg                                | 35 kg       |
| Warranty                          | 18 months                     |                |                                      |             |                                      |             |
| Remote                            | CR10                          |                |                                      |             |                                      |             |
| Battery type                      | AGM, GEL or Customized        |                |                                      |             |                                      |             |

# SPE SERIES

## 800 - 4000W SOLAR INVERTER CHARGER

SPE series are combined with integrated MPPT solar charger, AC charger, auto transfer switch and inverter unit for renewable energy systems. With the internal power management, SPE becomes the most intelligent solar inverter. Both solar charger and AC charger can work together to give the battery a best charging solution.



# SPE-S SERIES

## 3200W & 5000W SOLAR INVERTER CHARGER

SPE-S series are combined with **80A** MPPT solar charger, AC charger, auto transfer switch and inverter unit for renewable energy systems. Unlike the normal inverter, SPE-S is able to work without battery in daytime. That means it can transfer solar power to usable AC power with high stability which is even better than utility power.



Mobilehouse Solar Off Grid Solar

### SPE SERIES MAIN FEATURES

#### CHARGING PRIORITY

SPE series support manual selecting charging source priority between utility AC power and solar power.

#### RE-PROGRAMMABLE

Users are able to make the inverter become the partner of their power systems by reprogram the charging specification such as low voltage and charging DC current. The MAX charging current of SPE4000VA and SPE5000VA model reaches to 120Amp.

#### DIGITAL DISPLAY

Alphanumeric display gives the information of battery voltage, output voltage, frequency, input AC voltage, work mode and additional operation code.

#### STACKABLE

SPE4KVA and SPE5KVA allow stackable use by parallelling. Users will get MAX 24KW output power. Each unit manages the independent group of loads to ensure other appliances not being interrupted.

- Battery voltage - 12/ 24/ 48V available
- Charger - Programable AC charger
- PERFORM - Stackable use  
Three phase available
- Topology - High frequency

### SPE-S SERIES MAIN FEATURES

#### CHARGING PRIORITY

SPE-S series support manual selecting charging source priority between utility AC power and solar power.

#### RE-PROGRAMMABLE

Users are able to make the inverter become the partner of their power systems by reprogram the charging specification such as low voltage and charging DC current. The MAX charging current up to 80 Amps.

#### DIGITAL DISPLAY

Alphanumeric display gives the information of battery voltage, output voltage, frequency, input AC voltage, work mode and additional operation code.

#### WORK WITHOUT BATTERY

SPE-S gives the opportunity of using without battery being connected. It is able to work independently when solar power input to run the loads.



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- Battery voltage - 24/ 48V available
- Charger - Programable AC charger  
80A MPPT Solar charger
- PERFORM - Pure sine wave  
Work without battery
- Topology - High frequency

| MODELS                            | SPE1000                   | SPE2000           | SPE3000           | SPE4000           | SPE5000           |
|-----------------------------------|---------------------------|-------------------|-------------------|-------------------|-------------------|
| <b>INVERTER SPECIFICATIONS</b>    |                           |                   |                   |                   |                   |
| Continuous power                  | 800 watts                 | 1600 watts        | 2400 watts        | 3200 watts        | 4000 watts        |
| Surge power                       | 1600 watts                | 3200 watts        | 4800 watts        | 6400 watts        | 8000 watts        |
| AC output voltage                 | 230VAC +/- 3%             | 230VAC +/- 3%     | 230VAC +/- 3%     | 230VAC +/- 3%     | 230VAC +/- 3%     |
| AC output frequency               | 50/ 60Hz +/- 0.5%         | 50/ 60Hz +/- 0.5% | 50/ 60Hz +/- 0.5% | 50/ 60Hz +/- 0.5% | 50/ 60Hz +/- 0.5% |
| AC output waveform                | Pure sine wave (THD < 5%) |                   |                   |                   |                   |
| AC charge current                 | 20 ADC                    | 30 ADC            | 30 ADC            | 60 ADC            | 60 ADC            |
| Solar charge current              | 25 ADC                    | 25 ADC            | 25 ADC            | 60 ADC            | 60 ADC            |
| Max. efficiency                   | 87%                       | 88%               | 88%               | 88%               | 88%               |
| Rated DC voltage                  | 24/ 48 VDC                | 24/ 48 VDC        | 24/ 48 VDC        | 48 VDC            | 48 VDC            |
| Output phase                      | Single                    | Single            | Single            | Single            | Single            |
| <b>ENVIRONMENT SPECIFICATIONS</b> |                           |                   |                   |                   |                   |
| Operating temperature             | -20°C to +50°C            |                   |                   |                   |                   |
| <b>GENERAL INFORMATION</b>        |                           |                   |                   |                   |                   |
| Dimension(LxWxH)                  | 35.5x27.2x12.8 cm         |                   |                   |                   |                   |
| Weight                            | 7.4 kg                    | 7.6 kg            | 8.0 kg            | 12.5 kg           | 13.5 kg           |
| Warranty                          | 18 months                 |                   |                   |                   |                   |
| Remote                            | /                         |                   |                   |                   |                   |
| Battery type                      | AGM, GEL or Customized    |                   |                   |                   |                   |

| MODELS                            | SPE-3200S                 | SPE-5000S         |
|-----------------------------------|---------------------------|-------------------|
| <b>INVERTER SPECIFICATIONS</b>    |                           |                   |
| Continuous power                  | 3200VA / 3200W            | 5000VA / 5000W    |
| Surge power                       | 6400 watts                | 10000 watts       |
| AC output voltage                 | 230VAC +/- 5%;            | 230VAC +/- 5%;    |
| AC output frequency               | 50/ 60Hz +/- 0.5%         | 50/ 60Hz +/- 0.5% |
| AC output waveform                | Pure sine wave (THD < 5%) |                   |
| AC charge current                 | 60 ADC                    | 60 ADC            |
| Solar charge current              | 80 ADC                    | 80 ADC            |
| Max. efficiency                   | 93%                       | 93%               |
| Rated DC voltage                  | 24 VDC                    | 48 VDC            |
| Output phase                      | Single                    | Single            |
| <b>ENVIRONMENT SPECIFICATIONS</b> |                           |                   |
| Operating temperature             | -20°C to +50°C            |                   |
| <b>GENERAL INFORMATION</b>        |                           |                   |
| Dimension(LxWxH)                  | 10.0x30.0x44.4 cm         |                   |
| Weight                            | 9.0 kg                    | 10.0 kg           |
| Warranty                          | 18 months                 |                   |
| Remote                            | /                         |                   |
| Battery type                      | AGM, GEL or Customized    |                   |

# SPH SERIES

## 300 - 3000W INVERTER CHARGER

SPH inverter is the DC to AC inverter line for household to provide users with reliable AC power. Pure sine wave suit to all of the sensitive electronic loads.



- Battery voltage - 12V/ 24V/ 48V available
- PERFORM - Strong heat dissipation  
Pure sine wave
- Topology - High frequency

### SPH SERIES MAIN FEATURES

#### INDEPENDENT HEAT SINK

SPH inverter has the good air flow through the internal independent heat sink to ensure the inverter body cooling touch. With the comfortable temperature, inverter gives a excellent performance of heavy load.

#### REMOTE CONTROLLER

SPH inverters support long remote controller with more than 10 meters.

#### PURE SINE WAVE

With the pure sine wave output, no matter coffee machine, microwave, TV, satellite, printer or other sensitive loads, SPH powerinverter gives the perfect performance of running loads from the household appliances to office devices.



# PSCC SERIES

## 1000 - 3000W U.P.S INVERTER

Unlike the modified sine wave inverter, pure sine wave allows you to watch television without static, play your games on an Xbox™, Playstation™ or Wii™ and run a fluorescent, all of which may not operate properly on a modified sine wave inverters. Safety is paramount and in particular with inverters which is why COSUPER fully electrically isolates the DC (and therefore battery posts, vehicle chassis, etc) from the 110V or 230V AC circuit.

### PSCC SERIES MAIN FEATURES

#### PURE SINE WAVE

With the pure sine wave output, no matter coffee machine, microwave, TV, satellite, printer or other heavy duty equipment, PSCC U.P.S gives perfect performance of running loads from the household appliances to office devices.

#### DIGITAL DISPLAY

LCD display gives the working mode guide, battery voltage and charging condition for better reference of inverter.

#### BACKUP U.P.S

PSCC inverter charger works with the utility AC power source as the first priority. With nominal AC and DC power input, when AC fails, PSCC will switch to the back up DC source to ensure the loads keeping work. The transfer time is less than 2ms to ensure all the devices continuously working.



- Battery voltage - 12V 24V available
- Charger - 3 stage AC charger
- PERFORM - Pure sine wave, U.P.S
- Topology - High frequency

| MODELS                            | SPH300  | SPH600          | SPH1000          | SPH1500          | SPH2000           | SPH3000           |
|-----------------------------------|---|-----------------|------------------|------------------|-------------------|-------------------|
| <b>INVERTER SPECIFICATIONS</b>    |   |                 |                  |                  |                   |                   |
| Continuous power                  | 300 watts                                       | 600 watts       | 1000 watts       | 1500 watts       | 2000 watts        | 3000 watts        |
| Surge power                       | 600 watts                                       | 1200 watts      | 2000 watts       | 3000 watts       | 4000 watts        | 6000 watts        |
| AC output voltage                 | 120 VAC +/- 5%; 230VAC +/- 3%                   |                 |                  |                  |                   |                   |
| AC output frequency               | 50/ 60Hz +/- 0.5%                               |                 |                  |                  |                   |                   |
| AC output waveform                | Pure sine wave (THD < 5%)                       |                 |                  |                  |                   |                   |
| Rated DC voltage                  | 12/ 24 VDC                                      | 12/ 24 VDC      | 12/ 24/ 48 VDC   | 12/ 24/ 48 VDC   | 12/ 24/ 48 VDC    | 12/ 24/ 48 VDC    |
| Input DC range                    | 10.5 - 15 VDC (x2 for 24V ver. x4 for 48V ver.) |                 |                  |                  |                   |                   |
| Max. efficiency                   | 89%   | 92%             | 93%              | 93%              | 93%               | 93%               |
| Idle power                        | 3W  | 3W              | 9W               | 9.5W             | 12W               | 15W               |
| Output phase                      | Single  | Single          | Single           | Single           | Single            | Single            |
| <b>ENVIRONMENT SPECIFICATIONS</b> |   |                 |                  |                  |                   |                   |
| Operating temperature             | -20°C to +50°C                                  |                 |                  |                  |                   |                   |
| <b>GENERAL INFORMATION</b>        |   |                 |                  |                  |                   |                   |
| Dimension(LxWxH)                  | 12.0x9.7x8.5 cm                                 | 12.0x9.7x8.5 cm | 17.0x26.5x9.6 cm | 17.0x35.0x9.6 cm | 24.2x46.3x11.8 cm | 24.2x46.3x11.8 cm |
| Weight                            | 1 kg  | 1.5 kg          | 2.9 kg           | 3.2 kg           | 4.3 kg            | 5.5 kg            |
| Warranty                          | 18 months                                       |                 |                  |                  |                   |                   |
| Remote                            | CR10  |                 |                  |                  |                   |                   |
| Battery type                      | AGM, GEL or Customized                          |                 |                  |                  |                   |                   |

| MODELS                            | PSCC1000                  | PSCC1500          | PSCC2000          | PSCC3000          |
|-----------------------------------|---------------------------|-------------------|-------------------|-------------------|
| <b>INVERTER SPECIFICATIONS</b>    |                           |                   |                   |                   |
| Continuous power                  | 1000 watts                | 1500 watts        | 2000 watts        | 3000 watts        |
| Surge power                       | 2000 watts                | 3000 watts        | 4000 watts        | 6000 watts        |
| AC output voltage                 | 230VAC +/- 3%             |                   |                   |                   |
| AC output frequency               | 50Hz +/- 0.5%             |                   |                   |                   |
| AC output waveform                | Pure sine wave (THD < 5%) |                   |                   |                   |
| Rated DC voltage                  | 12/ 24 VDC                | 12/ 24 VDC        | 12/ 24 VDC        | 12/ 25 VDC        |
| Charge current                    | 20/ 10 ADC                | 20/ 10 ADC        | 25/ 12 ADC        | 25/ 12 ADC        |
| Max. efficiency                   | 87%                       | 88%               | 88%               | 88%               |
| Bypass current                    | 20 AAC                    | 20 AAC            | 30 AAC            | 30 AAC            |
| Output phase                      | Single                    | Single            | Single            | Single            |
| <b>ENVIRONMENT SPECIFICATIONS</b> |                           |                   |                   |                   |
| Operating temperature             | -5°C to +40°C             |                   |                   |                   |
| <b>GENERAL INFORMATION</b>        |                           |                   |                   |                   |
| Dimension(LxWxH)                  | 13.5x14.0x21.5 cm         | 13.5x14.0x24.5 cm | 13.5x14.0x24.5 cm | 13.5x14.0x27.0 cm |
| Weight                            | 4.1 kg                    | 4.9 kg            | 5.8 kg            | 7.0 kg            |
| Warranty                          | 18 months                 |                   |                   |                   |
| Remote                            | PTM-12, CR10              |                   |                   |                   |
| Battery type                      | AGM, GEL or Customized    |                   |                   |                   |

# GPI SERIES

## 10KW - 20KW THREE PHASE INVERTER

GPI inverter is designed with three phase balance technology to allow three phase inverter give single phase power. With the high-frequency technology, GPI has a better operation performance and lighter weight than traditional low-frequency inverter.



Industrial Power



Off Grid Solar

### GPI SERIES MAIN FEATURES

#### THREE PHASE OUTPUT

GPI is designed for industry area to provide 220V, 380V or 400V three phase pure sine wave AC power the same as the utility AC or three phase generator creates.

#### SINGLE PHASE OUTPUT

With three phase balance technology, GPI also allow users use 110V or 230V single phase loads and power the loads without any unbalance.

#### DIGITAL DISPLAY

LED display gives the information of current and voltage of each phase.

#### COMPACT SIZE

High technology creates the super compact size of this three phase inverter. Unlike the traditional three phase inverter, 10KW GPI is only 18 kgs for easy installation.

- Battery voltage - 24V/ 48V available
- PERFORM - Pure sine wave  
Three phase available  
Customized power available
- Topology - High frequency

| MODELS                            | GPI10K  | GPI12K            | GPI15K            | GPI20K            |
|-----------------------------------|---|-------------------|-------------------|-------------------|
| <b>INVERTER SPECIFICATIONS</b>    |   |                   |                   |                   |
| 3-phase rated power               | 10000 watts   | 12000 watts       | 15000 watts       | 20000 watts       |
| 3-phase surge power               | 30000 watts   | 36000 watts       | 45000 watts       | 60000 watts       |
| Single phase power                | 3300 watts  | 4000 watts        | 5000 watts        | 6600 watts        |
| AC output voltage                 | 208 VAC +/- 10%; 380VAC +/- 5% (Or customize)         |                   |                   |                   |
| AC output frequency               | 50/ 60Hz +/- 0.5%                                     |                   |                   |                   |
| AC output waveform                | Pure sine wave (THD<5%)                               |                   |                   |                   |
| Rated DC voltage                  | 24/ 48 VDC  | 24/ 48 VDC        | 24/ 48 VDC        | 48 VDC            |
| Bypass transfer(Optional)         | Utility to inverter: 3 sec; Inverter to Utility ≤ 5ms |                   |                   |                   |
| Max. efficiency                   | 86%   | 86%               | 86%               | 86%               |
| Output phase                      | Single  | Single            | Single            | Single            |
| <b>ENVIRONMENT SPECIFICATIONS</b> |   |                   |                   |                   |
| Operating temperature             | 0°C to +40°C  |                   |                   |                   |
| <b>GENERAL INFORMATION</b>        |   |                   |                   |                   |
| Dimension(LxWxH)                  | 66.0x45.6x21.7 cm                                     | 66.0x59.5x21.7 cm | 66.0x59.5x21.7 cm | 66.0x59.5x21.7 cm |
| Weight                            | 18 kg   | 22 kg             | 25 kg             | 29 kg             |
| Warranty                          | 18 months   |                   |                   |                   |
| Remote                            | CR10  |                   |                   |                   |
| Battery type                      | AGM, GEL or Customized                                |                   |                   |                   |



# TPI SERIES

## 30KW - 50KW THREE PHASE INVERTER

TPI inverter is designed with three phase balance technology to allow three phase inverter give single phase power. With the low frequency, TPI supports MAX 50KW three phase output with excellent stability and three phase balance.



Industrial Power



Off Grid Solar

### TPI SERIES MAIN FEATURES

#### THREE PHASE OUTPUT

TPI is designed for industry area to provide 380V three phase pure sine wave AC power the same as the utility AC or three phase generator creates.

#### SINGLE PHASE OUTPUT

With three phase balance technology, TPI also allow users load 230V single phase loads and power the loads without any phase unbalance.

#### BATTERY CHARGER(OPTIONAL)

The built-in battery charger unit can be paralleled to charge the battery bank with the nominal three phase AC input.

#### DISPLAY

TPI inverter unit is operated by the touch screen. It indicates inverter working conditions and system fault information.

- Battery voltage - 96~384V available
- PERFORM - Pure sine wave  
Three phase available  
Customize power available
- Topology - Low frequency

| MODELS                            | TPI30K                     | TPI40K        | TPI50K        |
|-----------------------------------|----------------------------|---------------|---------------|
| <b>INVERTER SPECIFICATIONS</b>    |                            |               |               |
| 3-phase rated power               | 30000 watts                | 40000 watts   | 50000 watts   |
| 3-phase surge power               | 90000 watts                | 120000 watts  | 150000 watts  |
| Single phase power                | 10000 watts                | 13000 watts   | 16000 watts   |
| AC output voltage                 | 380VAC +/- 3%              |               |               |
| AC output frequency               | 50Hz +/- 0.5%              | 50Hz +/- 0.5% | 50Hz +/- 0.5% |
| AC output waveform                | Pure sine wave (THD < 5%)  |               |               |
| Rated DC voltage                  | 96/ 192/ 220/ 240/ 384 VDC |               |               |
| Charge current                    | 5 ADC each unit, MAX 30ADC |               |               |
| Max. efficiency                   | 85%                        | 85%           | 85%           |
| Output phase                      | Single                     | Single        | Single        |
| <b>ENVIRONMENT SPECIFICATIONS</b> |                            |               |               |
| Operating temperature             | -30°C to +50°C             |               |               |
| <b>GENERAL INFORMATION</b>        |                            |               |               |
| Dimension(LxWxH)                  | 100.0x60.0x150.0 cm        |               |               |
| Weight                            | 4.1 kg                     | 4.1 kg        | 4.1 kg        |
| Warranty                          | 18 months                  |               |               |
| Remote                            | /                          |               |               |
| Battery type                      | AGM, GEL or Customized     |               |               |



# DPI SERIES

## MODIFIED SINE WAVE INVERTER



DPI is the modified sine wave inverter. Modified sine wave inverter has the natural advantage to boost the complex loads. Its start power is larger than pure sine wave inverters. Modified sine wave inverter is the delightful option of outdoor power supply and emergency use. With the solar power, this inverter will provide a affordable power supply.



Mobilehouse Solar



Off Grid Solar

- Battery voltage - 12/24V available
- PERFORM - Modified Sine Wave
- Topology - High frequency

### GPI SERIES MAIN FEATURES

#### HEAVY DUTY DESIGN

DPI inverter is designed for household appliances with high start power which makes sure the complex loads can be started, such like microwave, air compressor or vacuum.

#### HIGH SAFETY

Advanced polarity reverse protection with Over voltage, Low voltage, Overload, Short circuit, Over heat, Built-in cooling fan; Led light indicates working status.

#### WORK WITH

Power Tools, Televisions  
Gaming Consoles, Air Compressor  
Vacuum, Microwave  
Refridgerator, freezer  
Laptop, PC  
And more...



# CMPD SERIES

## MPPT SOLAR CHARGER CONTROLLER

MPPT technology is the best option currently for the solar power transfer from PV modules to your batteries. Especially in the cloudy day, this smart solar charger will regulate the output voltage and charge current to optimize the charge power at its top level.



Mobilehouse Solar



Off Grid Solar

- Battery voltage - 12/24/48V available
- Perform - >98% efficiency
- Charge Method: MPPT
- BTS included

#### 80A Charge Current available

COSUPER CMP80-DL has MAX. 80A DC charge current even in cloudy day. This is specifically designed for mass battery pack to get a rapid charge with better efficiency.

#### Battery Type

This MPPT units provides the availability of set the charge voltage by users. Therefore no matter AGM, Gel, Open Lead acid are all workable with this MPPT solar chargers.

#### Display & Communication

With the LCD display, users are able to read all the parameters when it works. RS485 communication is available for offer communication protocol to convenient user's integrated management and secondary development.

| MODELS                            | DPI150                           | DPI350        | DPI700        | DPI1000       | DPI2000       | DPI3000       |
|-----------------------------------|----------------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>INVERTER SPECIFICATIONS</b>    |                                  |               |               |               |               |               |
| Continuous power                  | 150 watts                        | 350 watts     | 700 watts     | 1000 watts    | 2000 watts    | 3000 watts    |
| Surge power                       | 300 watts                        | 700 watts     | 1400 watts    | 2000 watts    | 4000 watts    | 6000 watts    |
| AC output voltage                 | 120 VAC +/- 5%; 230VAC +/- 3%    |               |               |               |               |               |
| AC output frequency               | 50/ 60Hz +/- 0.5%                |               |               |               |               |               |
| AC output waveform                | Modified sine wave               |               |               |               |               |               |
| Rated DC voltage                  | 12/ 24 VDC                       | 12/ 24 VDC    | 12/ 24 VDC    | 12/ 24 VDC    | 12/ 24 VDC    | 12/ 24 VDC    |
| Input DC range                    | 10.5 - 15 VDC (x2 for 24V ver. ) |               |               |               |               |               |
| Max. efficiency                   | 89%                              | 92%           | 93%           | 93%           | 93%           | 93%           |
| Idle power                        | 3W                               | 3W            | 9W            | 9.5W          | 12W           | 15W           |
| Output phase                      | Single                           | Single        | Single        | Single        | Single        | Single        |
| <b>ENVIRONMENT SPECIFICATIONS</b> |                                  |               |               |               |               |               |
| Operating temperature             | -20°C to +50°C                   |               |               |               |               |               |
| <b>GENERAL INFORMATION</b>        |                                  |               |               |               |               |               |
| Dimension(LxWxH) (CM)             | 8.7x6.5x4.0                      | 16.5x10.4x6.5 | 21.0x10.4x6.5 | 25.9x10.0x7.0 | 35.0x20.0x7.1 | 40.6x20.3x7.1 |
| Weight                            | 0.3 kg                           | 0.6 kg        | 1.6 kg        | 1.8 kg        | 4.2kg         | 5.0 kg        |
| Warranty                          | 18 months                        |               |               |               |               |               |
| Remote                            | /                                |               |               |               |               |               |
| Battery type                      | AGM, GEL or Customized           |               |               |               |               |               |

| MODELS                          | CMP40-DL                           | CMP50-DL           | CMP60-DL           | CMP80-DL          |
|---------------------------------|------------------------------------|--------------------|--------------------|-------------------|
| <b>SPECIFICATION</b>            |                                    |                    |                    |                   |
| System Voltage                  | 12V, 24V or 48V Auto work          |                    |                    |                   |
| MAX. PV input Volt              | 150VDC                             |                    |                    |                   |
| MAX. PV input power             | 12V -- 520 watts                   | 12V -- 650 watts   | 12V -- 780 watts   | 12V -- 1040 watts |
|                                 | 24V -- 1040 watts                  | 24V -- 1300 watts  | 24V -- 1560 watts  | 24V -- 2080 watts |
|                                 | 48V -- 2080 watt                   | 48V -- 2600 watt   | 48V -- 3120 watt   | 48V -- 4160 watt  |
| MAX. Charge Current             | 40A                                | 50A                | 60A                | 80A               |
| Charge Method                   | Three stage charge                 |                    |                    |                   |
| Low PV Voltage Protection       | Battery voltage+3V                 |                    |                    |                   |
| Over PV Voltage Protection      | 150VDC                             | 150VDC             | 150VDC             | 150VDC            |
| DC Load Voltage                 | Same with battery voltage          |                    |                    |                   |
| MAX. DC Load Current            | 40Amp                              | 60Amp              | 60Amp              |                   |
| <b>ENVIRONMENT</b>              |                                    |                    |                    |                   |
| Operating / Storage Temperature | -20°C to +50°C / - 40°C to +70°C   |                    |                    |                   |
| <b>GENERAL INFORMATION</b>      |                                    |                    |                    |                   |
| Communication                   | RJ45 / RS485 / PC monitor          |                    |                    |                   |
| Weight                          | 2.3 Kg                             | 2.5 Kg             | 2.8 Kg             | 7.5 Kg            |
| Warranty                        | 18 months                          |                    |                    |                   |
| IP Level                        | IP21                               | IP21               | IP21               | IP43              |
| Cooling                         | Cooling Fan                        |                    |                    |                   |
| Dimension(LxWxH)                | 24.0x 16.8x 6.6 cm                 | 27.0x 18.0x 8.5 cm | 27.0x 18.0x 8.5 cm | 42.0x 28x 9.5 cm  |
| Battery Type                    | Li FePO4 , AGM , GEL or Customized |                    |                    |                   |

## PPS-A SERIES

### PORTABLE AC POWER SYSTEM



It realized the battery to be a portable DC and AC source. Lithium battery provides more than 500 cycle life to ensure the durability. Laptop, cellphone, camera can be charged at same time by the internal 200W DC to AC power inverter and 3 outlets of USB.

#### PPS-A Portable Battery System

##### DC Output

- 4 x DC outputs 9~12V / 10A / 15A Max
- 2 x USB 5V-2.1A
- 1 x USB 5~9V / 2A (QC 3.0/ Support QI Devices)
- 1 x USB C 5~9V / 2A (Type C)

##### AC Output

- Rated Power: 200W; Peak Power: 300W
- AC Voltage: 110VAC / 220VAC
- Output Frequency: 50/60Hz±5% Hz

##### Built-in Battery

- Capacity: 222Wh (3.7V 6000mAh)
- Battery Type: Lithium-ion Batteries
- Lifecycle: >500 times
- Solar Panel Charging (NOT Included): DC 13-23V/2.5A Max
- Bulb Type: 2 x 1W ultra bright LED flashlight / blink;
- Power Indicator: LED Display

## DDS-N SERIES

### PORTABLE SOLAR GENERATOR KIT



Rechargeable battery solar generator system with larger power capacity 8000mAh, storage solar generator power to battery and supply power to LED light and mobile phone. Perfect emergency power backup for home, travel, camping, drone charger, phone charger or lights. With Bluetooth connection, it works as a speaker of your mobile devices.

#### DDS-N Portable Solar Generator Kit

##### DC Output

- 3 x DC outputs 3.7V for external lights
- 1 x USB 5V-2.1A

##### Solar Charge

- 6W solar panel included
- 4-8 hours fully charged

##### AC Charge

- 220VAC AC charger included
- 4-6 hours fully charged

##### Built-in Battery

- Capacity: 29.6Wh (3.7V 8000mAh)
- Battery Type: Lithium-ion Batteries
- Lifecycle: >500 times

##### External

- Bulb Type: 3 x 1W LED blubs
- EM Radio & MP3: Flash drive & SD

## DDS-Y SERIES

### PORTABLE SOLAR GENERATOR KIT



Rechargeable battery solar generator system with larger power capacity 9000mAh, storage solar generator power to battery and supply power to LED light and mobile phone. Perfect emergency power backup for home, travel, camping, drone charger, phone charger or lights.

#### DDS-Y Portable Battery System

##### DC Output

- 4 x DC outputs 3.7V for external lights
- 2 x USB 5V-2.1A

##### Solar Charge

- 6W solar panel included
- 4-8 hours fully charged

##### AC Charge

- 220VAC AC charger included
- 4-6 hours fully charged

##### Built-in Battery

- Capacity: 333Wh (3.7V 6000mAh)
- Battery Type: Lithium-ion Batteries
- Lifecycle: >500 times

##### External

- Bulb Type: 3 x 1W LED blubs
- Power Indicator: LED display battery level
- EM Radio & MP3: Flash drive & SD

# W SERIES

## GEL & LiFePO4 BATTERY



### W-S GEL BATTERY

- EPS & UPS system
- Telecommunication system
- Off grid radio center
- Hybrid energy system
- Emergency lighting system



### W-L LiFePO4 BATTERY

- Energy storage system
- Prolonged blackout backup system
- Off grid power system
- Hybrid energy system
- Emergency lighting system

### W-S GEL BATTERY

| SPEC      | MODEL    | CAPACITY    | DIMENSION  |           |            |                    | WEIGHT(kg) | TERMINAL |
|-----------|----------|-------------|------------|-----------|------------|--------------------|------------|----------|
|           |          |             | Length(mm) | Width(mm) | Height(mm) | Overall Height(mm) |            |          |
| 12V 100Ah | W12-100S | 100Ah/10HR  | 327        | 171       | 231        | 236                | 31         | B7       |
| 12V 120Ah | W12-120S | 120Ah/10HR  | 327        | 171       | 231        | 236                | 34         | B7       |
| 12V 150Ah | W12-150S | 150Ah/10HR  | 440        | 160       | 240        | 245                | 49         | B8       |
| 12V 200Ah | W12-200S | 200Ah/10HR  | 480        | 238       | 210        | 240                | 62         | B8       |
| 12V 250Ah | W12-250S | 250Ah/10HR  | 480        | 238       | 210        | 240                | 70         | B8       |
| 2V 300Ah  | W2-300S  | 300Ah/10HR  | 150        | 170       | 330        | 365                | 20         | C2       |
| 2V 400Ah  | W2-400S  | 400Ah/10HR  | 241        | 171       | 330        | 365                | 29         | C2       |
| 2V 500Ah  | W2-500S  | 500Ah/10HR  | 241        | 171       | 330        | 365                | 32         | C2       |
| 2V 1000Ah | W2-1000S | 1000Ah/10HR | 471        | 171       | 330        | 365                | 64         | C2       |
| 2V 1500Ah | W2-1500S | 1500Ah/10HR | 401        | 347       | 342        | 378                | 93         | C2       |
| 2V 2000Ah | W2-2000S | 2000Ah/10HR | 490        | 349       | 342        | 383                | 123        | C2       |

### W-L LiFePO4 BATTERY

| SPEC      | MODEL    | CAPACITY   | DIMENSION  |           |            |                    | WEIGHT(kg) | TERMINAL |
|-----------|----------|------------|------------|-----------|------------|--------------------|------------|----------|
|           |          |            | Length(mm) | Width(mm) | Height(mm) | Overall Height(mm) |            |          |
| 12V 50Ah  | W12-50L  | 50Ah/10HR  | 240        | 200       | 180        | 190                | 14         | CP       |
| 12V 100Ah | W12-100L | 100Ah/10HR | 300        | 220       | 180        | 190                | 26         | CP       |
| 12V 200Ah | W12-200L | 200Ah/10HR | 380        | 355       | 260        | 270                | 33         | CP       |
| 12V 400Ah | W12-400L | 400Ah/10HR | 380        | 355       | 350        | 360                | 70         | CP       |
| 12V 500Ah | W12-500L | 500Ah/10HR | 420        | 355       | 350        | 360                | 80         | CP       |
| 24V 60Ah  | W24-60L  | 60Ah/10HR  | 280        | 260       | 180        | 190                | 19         | CP       |
| 24V 80Ah  | W24-80L  | 80Ah/10HR  | 300        | 260       | 180        | 190                | 23         | CP       |
| 24V 100Ah | W24-100L | 100Ah/10HR | 360        | 300       | 190        | 200                | 30         | CP       |
| 24V 200Ah | W24-200L | 200Ah/10HR | 380        | 355       | 350        | 360                | 70         | CP       |
| 24V 400Ah | W24-400L | 400Ah/10HR | 640        | 355       | 350        | 360                | 103        | CP       |
| 48V 20Ah  | W48-20L  | 20Ah/10HR  | 230        | 175       | 175        | 185                | 10         | CP       |
| 48V 50Ah  | W48-50L  | 50Ah/10HR  | 380        | 355       | 180        | 190                | 28         | CP       |
| 48V 60Ah  | W48-60L  | 60Ah/10HR  | 420        | 355       | 180        | 190                | 40         | CP       |
| 48V 100Ah | W48-100L | 100Ah/10HR | 380        | 355       | 350        | 360                | 60         | CP       |
| 48V 200Ah | W48-200L | 200Ah/10HR | 700        | 355       | 350        | 360                | 103        | CP       |

# ACCESSORIES



### REMOTE - CR10

#### WORK WITH

- CPT series inverter charger
- LPT series inverter charger

Monitor the inverter Charge/ Inverter/ Alarm; Easy to install and ultra compact

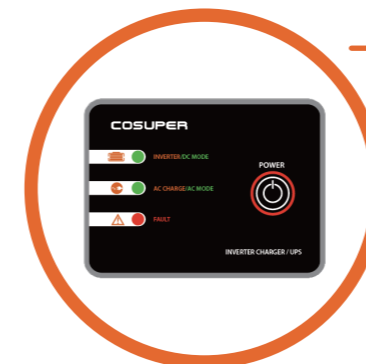


### REMOTE - PTM-12

#### WORK WITH

- CPT series inverter charger
- CPS series inverter charger

Monitor the inverter Charge/ Inverter/ Battery Volt/ AC Volt/ Battery Level/ Frequency



### REMOTE - CR12

#### WORK WITH

- PSCC SERIES U.PS INVERTER

Monitor the inverter Charge/ Inverter/ Alarm; Easy to install and ultra compact



### REMOTE & MONITOR SYSTEM - CR80

#### WORK WITH

- CPT series inverter charger
- CPS series inverter charger

This is not only a monitor, also an interactive control center for all devices of mobile solar house or mobile vehicle. Monitor battery level, daily solar output, solar input , etc.

NOTE

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HUG SUNLIGHTS.  
POWER YOUR LIFE.

Cool life Super power

**COSUPER**  
Cool life Super power

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