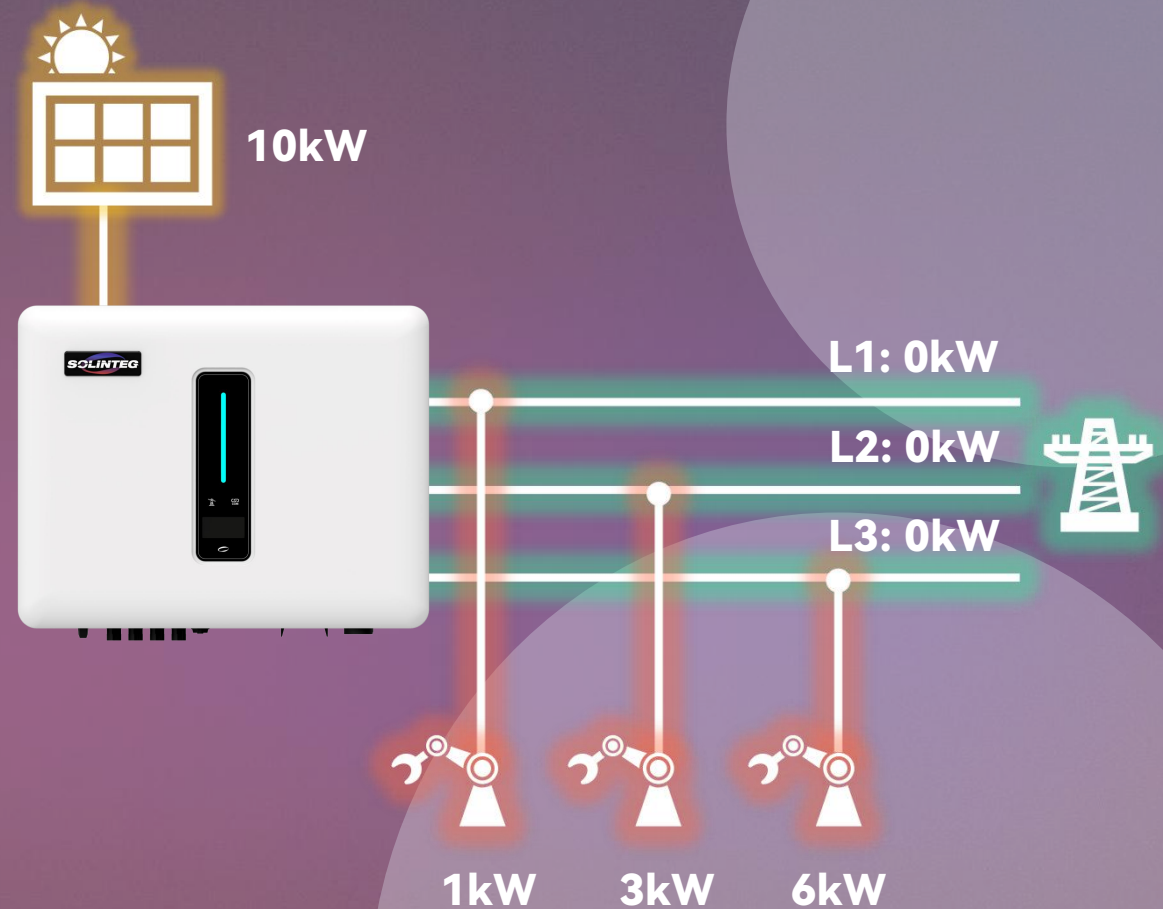


How Solinteg Unbalanced Output benefits your life?

INTEGRATE SOLAR INTELLIGENTLY



Use Your Power More Efficiently

Brief Introduction

What is unbalanced output?

Three-phase hybrid inverter with an unbalanced output application is a type of inverter used in three-phase electrical systems. It is designed to provide a stable power supply to loads that have uneven power demands across the three phases. With an unbalanced output function, the inverter output power on each phase depends on the load consumption of each individual phase.

- **No unbalanced output :**
each phase must output balanced;
- **Limited unbalanced output:**
It can't output 100% power in an unbalanced situation;
- **100% unbalanced output:**
It can output 100% power in an unbalanced situation;
- **110% unbalanced output:**
It can output 110% power in an unbalanced situation;

Save Your Every Watt



How does unbalanced output benefit your power system?

Which one is your electricity using scenario?

For different solar system users all over the world, they may face different regulations or situations:



Power Export Limitation

For different countries, the power export limitation may be different. Some are partly limited and some are fully limited. An inverter without unbalanced output may face huge power waste when the export is limited.



Grid Billing Mode

Some nations charge for power across the total of all three phases, whereas others charge for each phase individually. Unbalanced output can save customers more money in locations billed on a single phase.



With or Without Battery

Some inverters support unbalanced output while the battery is connected but we support the unbalanced output no matter battery is connected or not.

Save Your Bill at All Conditions

Export Limited



Different Bill Mode



No Battery



SCENARIO 1



Billed in Single Phase

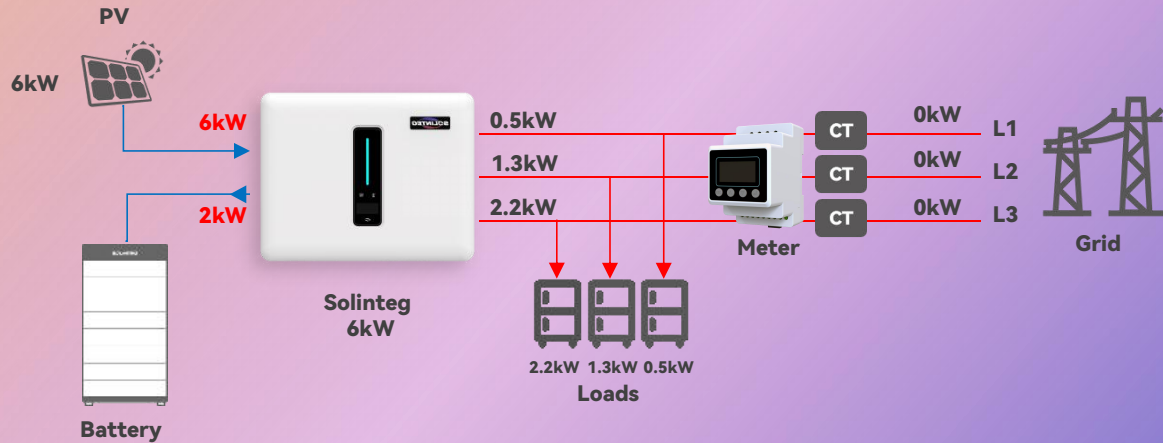


Power Export Limit On



With Battery Connected

110% UNBALANCED

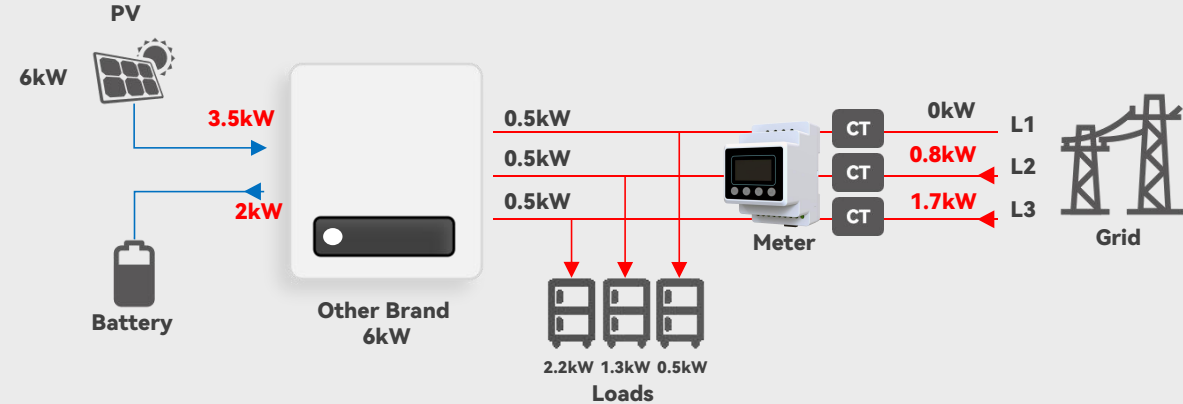


100% energy independence

71% more PV generation

VS

100% BALANCED



1095USD more electricity bill a year

Over 40% PV power wasted

Note:

1. Compared when both systems will work stable for 4h a day.
2. For both scenarios, the battery charging and discharging power limitation is 2kW.
3. Electricity price: for purchasing 0.3USD/kWh, for selling 0.1USD/kWh.

SCENARIO 2



Billed in Single Phase

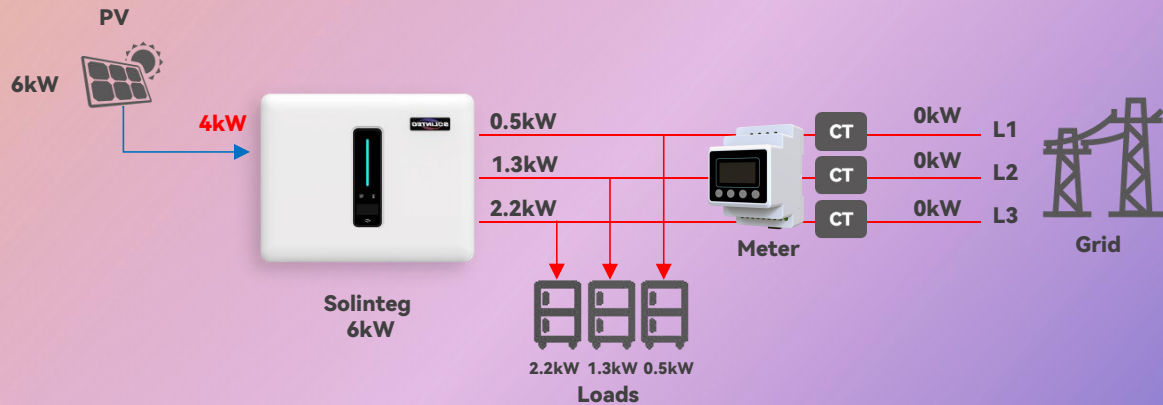


Power Export Limit On



Without Battery Connected

110% UNBALANCED

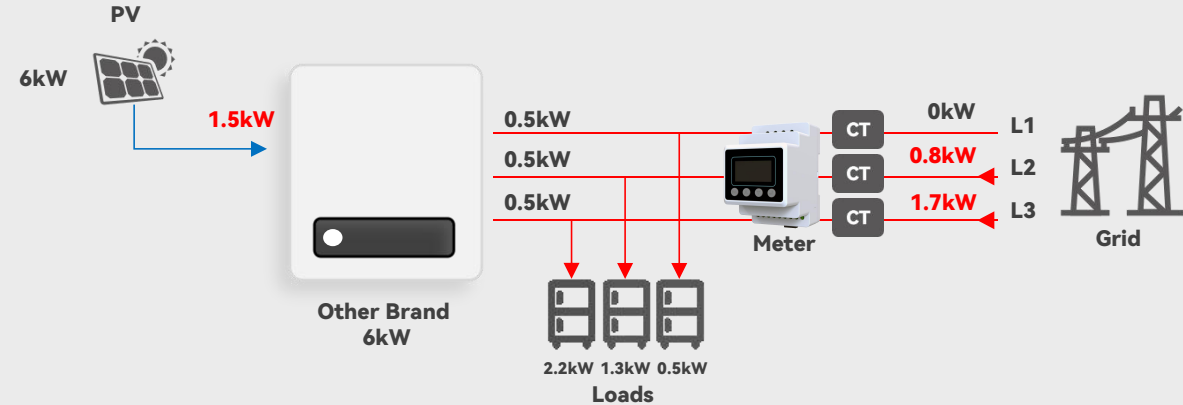


167% more PV power generation

3650kWh grid power saved

VS

100% BALANCED



1095USD more electricity bill a year

Over 75% PV power wasted

Note:

1. Compared when both systems will work stable for 4h a day.
2. For both scenarios, the battery charging and discharging power limitation is 2kW.
3. Electricity price: for purchasing 0.3USD/kWh, for selling 0.1USD/kWh.

SCENARIO 3



Billed in Single Phase

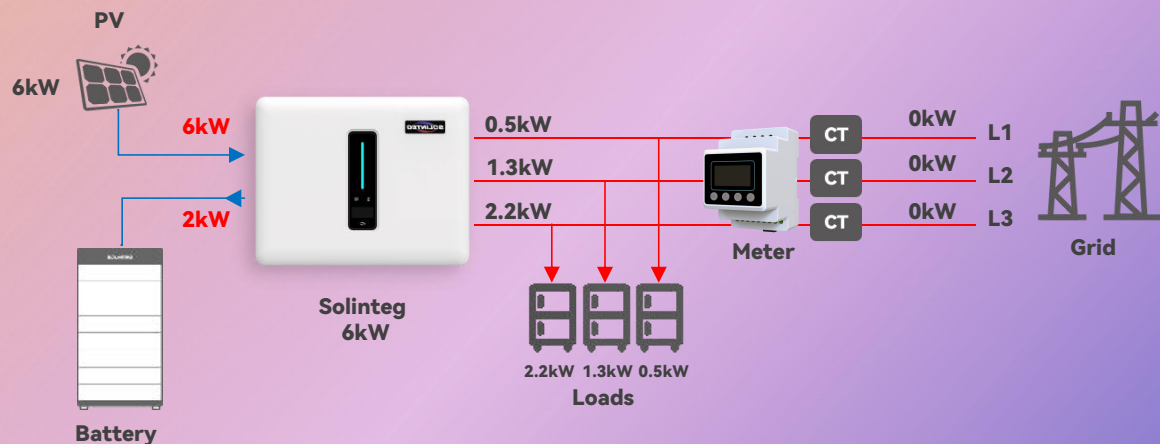


Power Export Limit Off



With Battery Connected

110% UNBALANCED

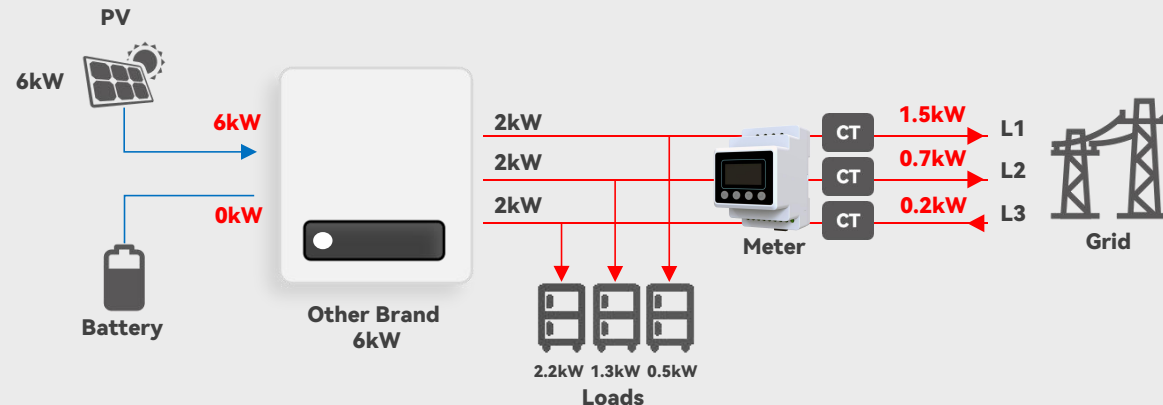


100% PV power utilization

642.4USD bill saved a year

VS

100% BALANCED



Battery charging power wasted

3212kWh more grid power used a year

Note:

1. Compared when both systems will work stable for 4h a day.
2. For both scenarios, the battery charging and discharging power limitation is 2kW.
3. Electricity price: for purchasing 0.3USD/kWh, for selling 0.1USD/kWh.

SCENARIO 4



Billed in Single Phase

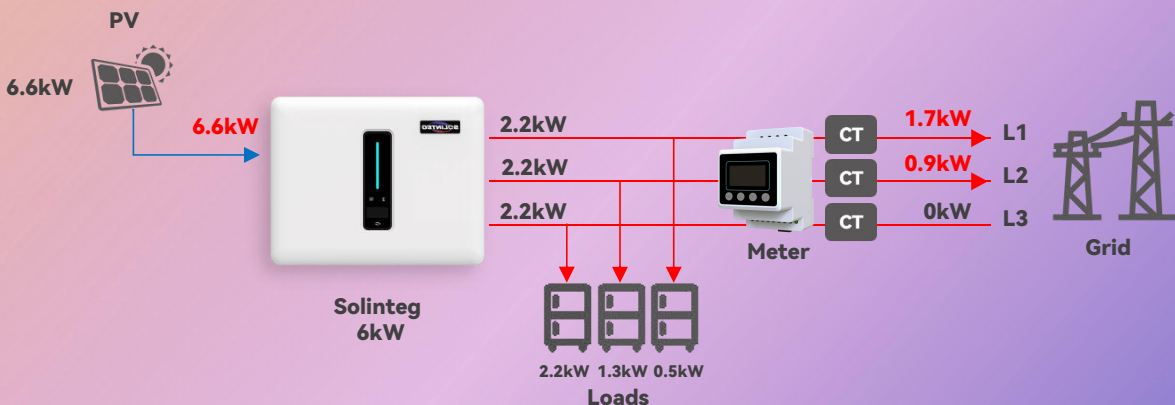


Power Export Limit Off



Without Battery Connected

110% UNBALANCED

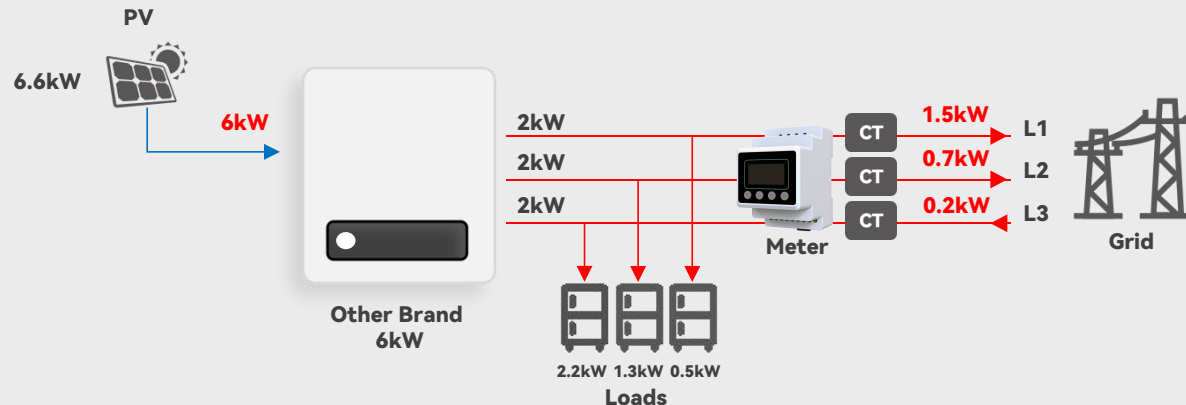


10% more PV power generation

60% more revenue

VS

100% BALANCED



10% PV power wasted

292kWh more grid power used

Note:

1. Compared when both systems will work stable for 4h a day.
2. For both scenarios, the battery charging and discharging power limitation is 2kW.
3. Electricity price: for purchasing 0.3USD/kWh, for selling 0.1USD/kWh.

SCENARIO 5



Billed in Total

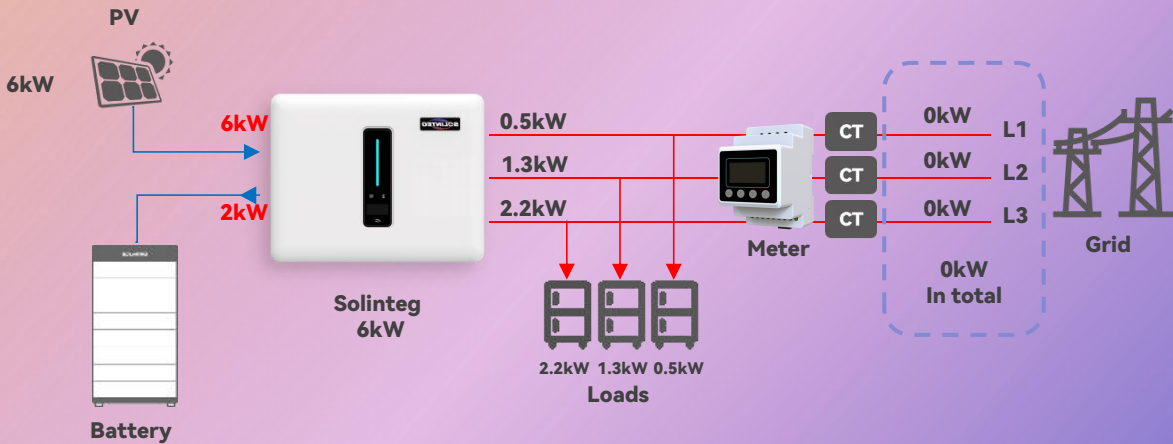


Power Export Limit On



With Battery Connected

110% UNBALANCED

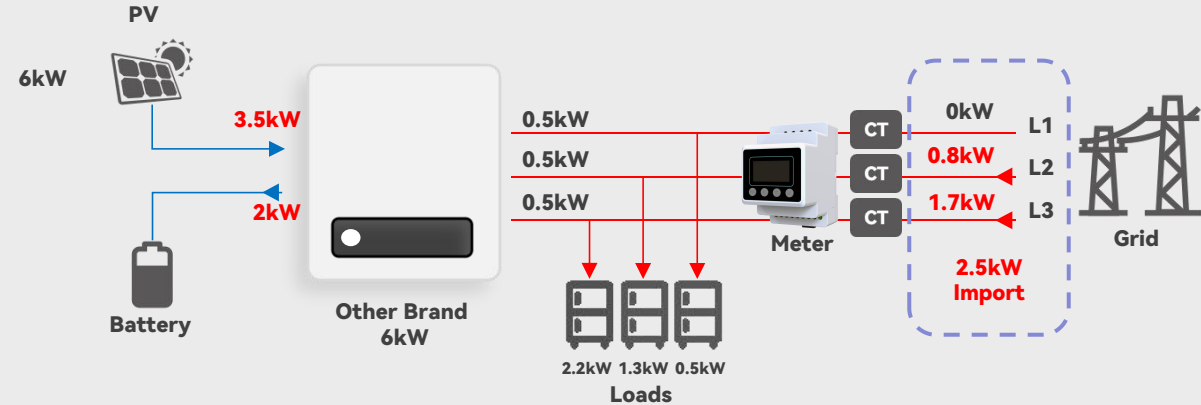


100% energy independence

71% more PV power generation

VS

100% BALANCED



1095USD more electricity bill a year

Over 40% PV power wasted

Note:

1. Compared when both systems will work stable for 4h a day.
2. For both scenarios, the battery charging and discharging power limitation is 2kW.
3. Electricity price: for purchasing 0.3USD/kWh, for selling 0.1USD/kWh.

SCENARIO 6



Billed in Total

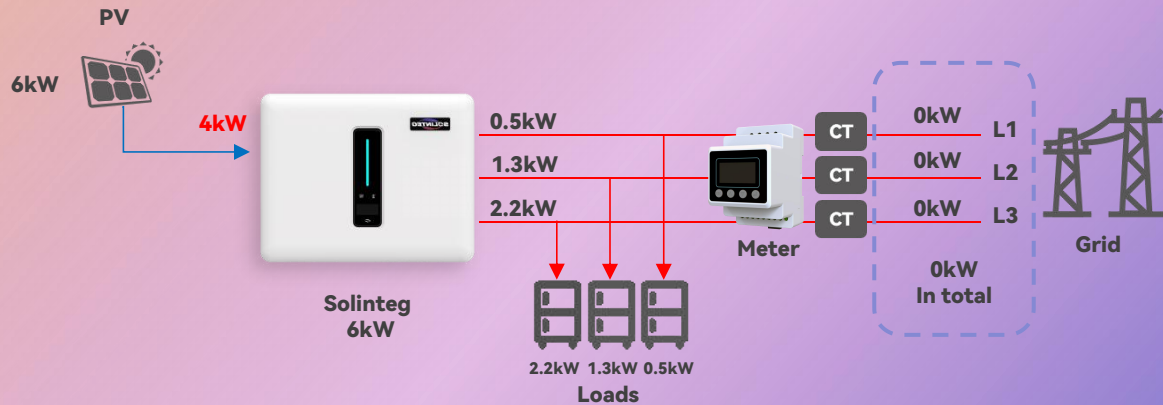


Power Export Limit On



Without Battery Connected

110% UNBALANCED

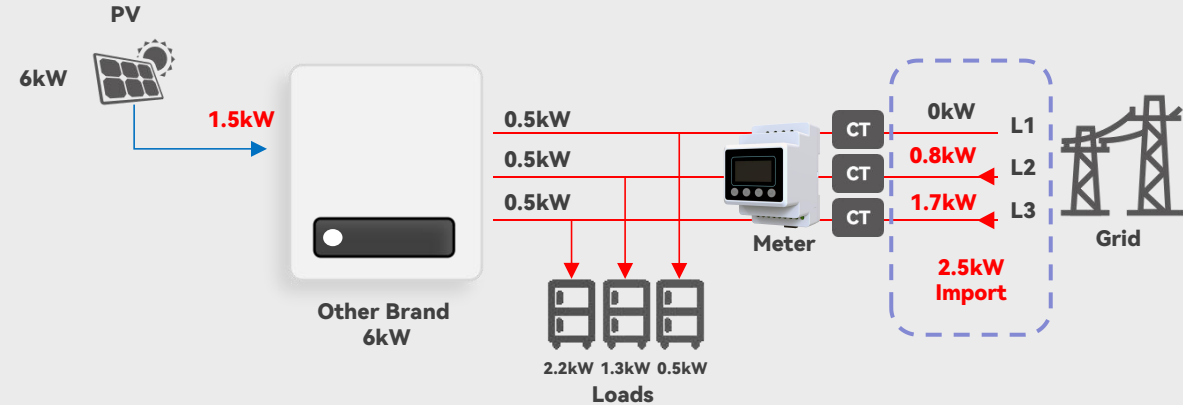


167% more PV power generation

3650kWh grid power saved

VS

100% BALANCED



1095USD more electricity bill a year

Over 75% PV power wasted

Note:

1. Compared when both systems will work stable for 4h a day.
2. For both scenarios, the battery charging and discharging power limitation is 2kW.
3. Electricity price: for purchasing 0.3USD/kWh, for selling 0.1USD/kWh.

SCENARIO 7



Billed in Total

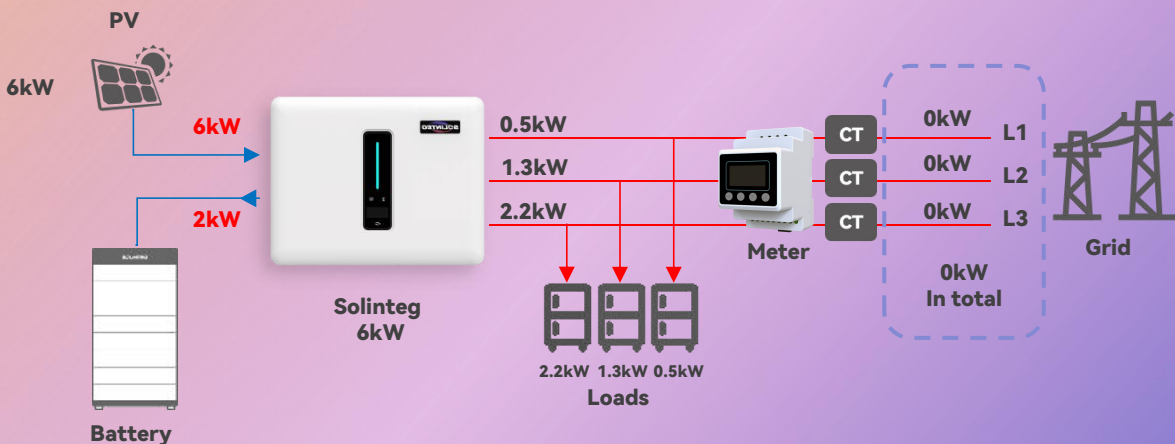


Power Export Limit Off



With Battery Connected

110% UNBALANCED

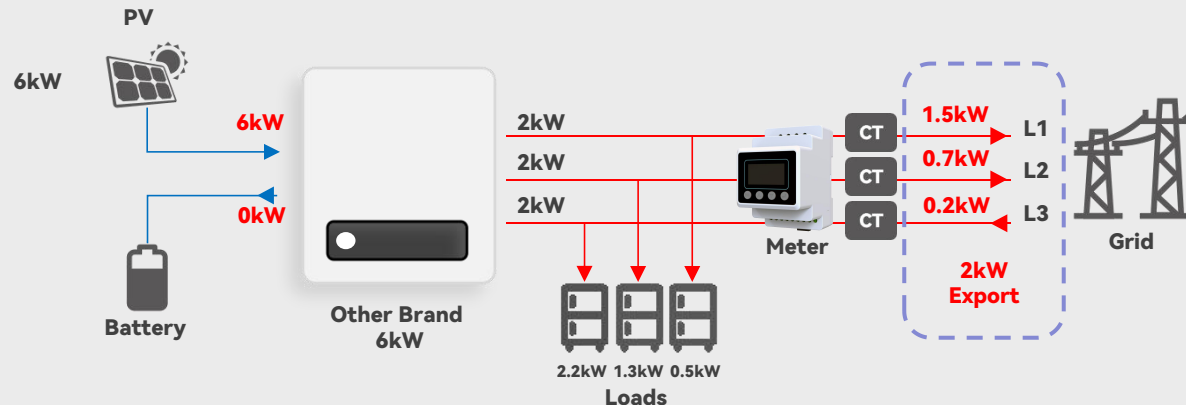


100% PV power utilization

2920kWh power saver a year

VS

100% BALANCED



Battery charging power wasted

584USD more electricity bill a year

Note:

1. Compared when both systems will work stable for 4h a day.
2. For both scenarios, the battery charging and discharging power limitation is 2kW.
3. Electricity price: for purchasing 0.3USD/kWh, for selling 0.1USD/kWh.

SCENARIO 8



Billed in Total

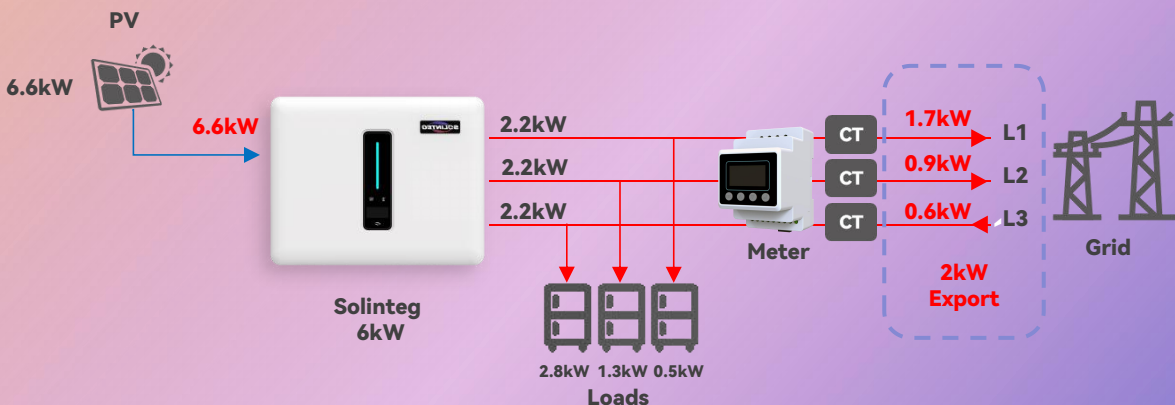


Power Export Limit Off



Without Battery Connected

110% UNBALANCED

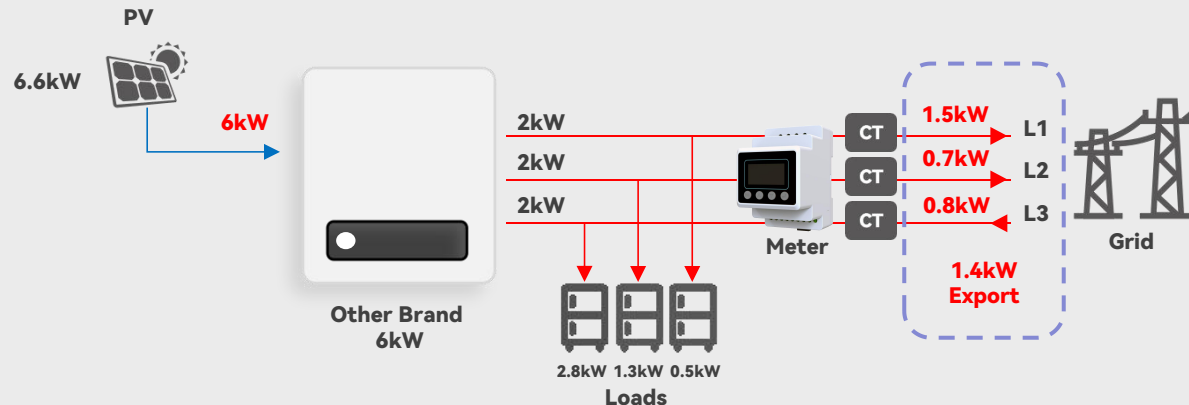


10% more PV power generation

43% more revenue

VS

100% BALANCED



10% PV power wasted

Less power revenue

Note:

1. Compared when both systems will work stable for 4h a day.
2. For both scenarios, the battery charging and discharging power limitation is 2kW.
3. Electricity price: for purchasing 0.3USD/kWh, for selling 0.1USD/kWh.

Advantages of 110% Unbalanced Output



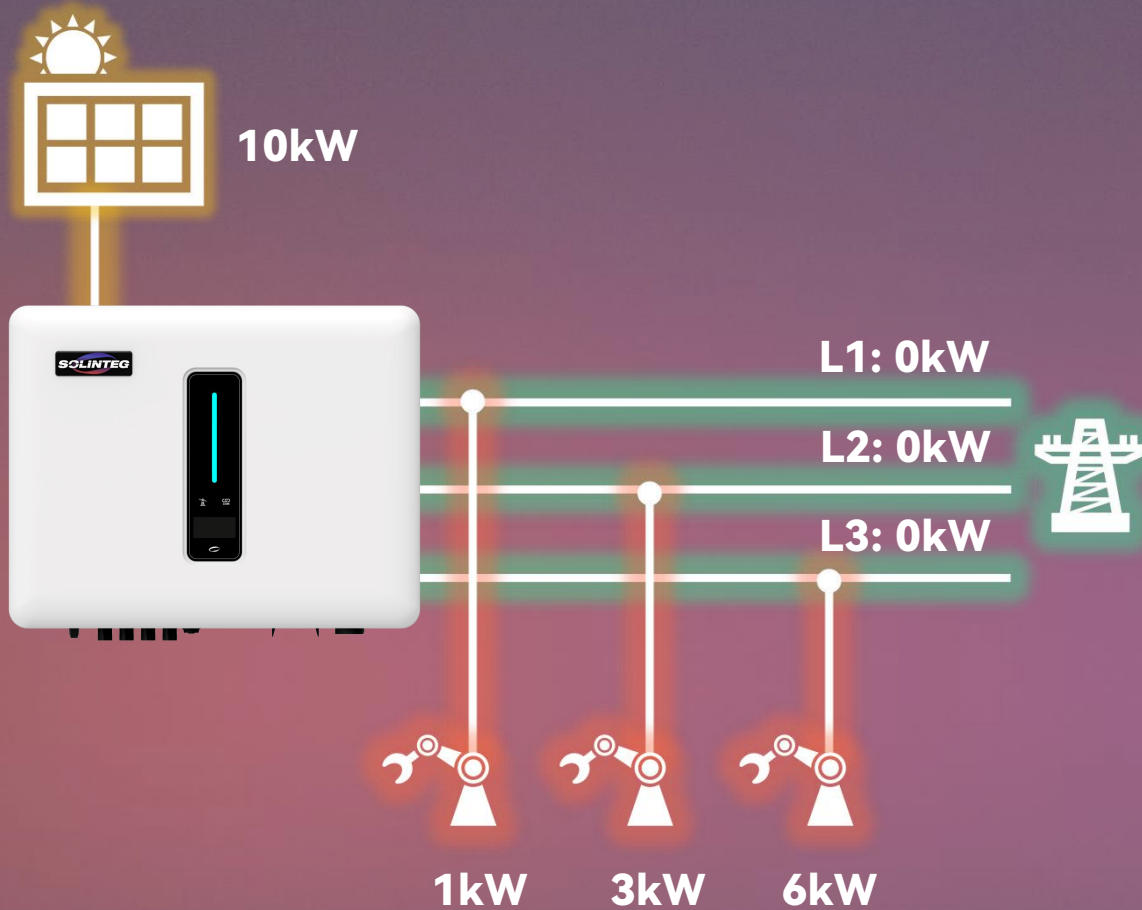
**Higher
Power Independence**

More Power Generation

More Revenue

Faster Charging

Less Electricity Bills



Use Your Power More Efficiently

END
Visit Solinteg website to find out more

INTEGRATE SOLAR INTELLIGENTLY