

# *Dowell*

Tailor Made



iPower Smart Back Up  
Inverters 2kw / 3kw



## About us

Dowell Electronics is a Chinese owned and operated company with facilities in Shanghai, Beijing and Changzhou. The company head office is in Shanghai, there is a sales office in Beijing and another sales office in Changzhou which is also the site of the company's manufacturing and warehousing facilities.

The company consists of two main divisions. The first is the manufacture and sales of charging equipment for use by electric vehicles. The second is the manufacture and sales of PV equipment.

The company has very talented and extremely experienced technical teams who ensure that the company's products are always being improved and are state of the art and are working on the next generation of products.

After gaining a listing on the Shanghai stock exchange, the company has decided to enter the export market.

The sales office has a multi-lingual team ready to discuss your needs, no matter where you are. We hope to talk with you soon.



## Features and Benefits

You get solar power in the day but what about the night?

The Dowell iPower storage inverter is the final piece in a PV installation. Here is a unit that works to store daytime generated energy and release it at night to minimize your reliance on grid power. You are no longer dependent on the grid when it goes dark (or fails).

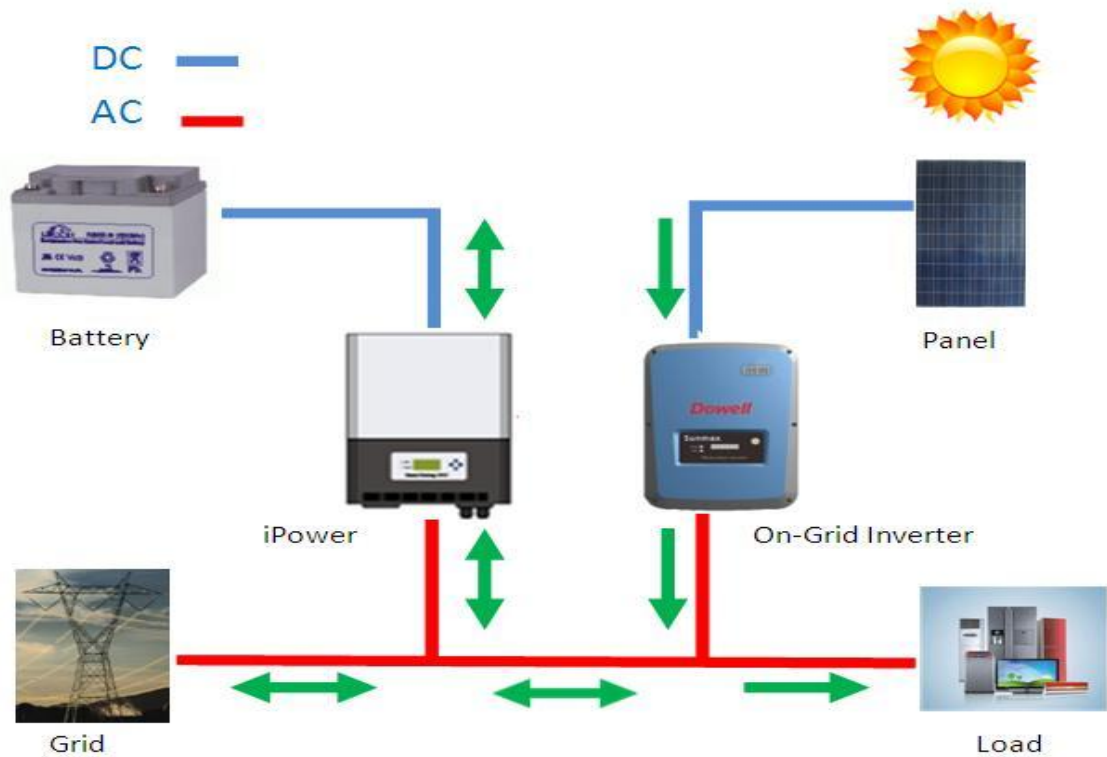
These units will give you access to solar energy 24 hours a day.

Here are some of the features and benefits of the iPower Storage inverters

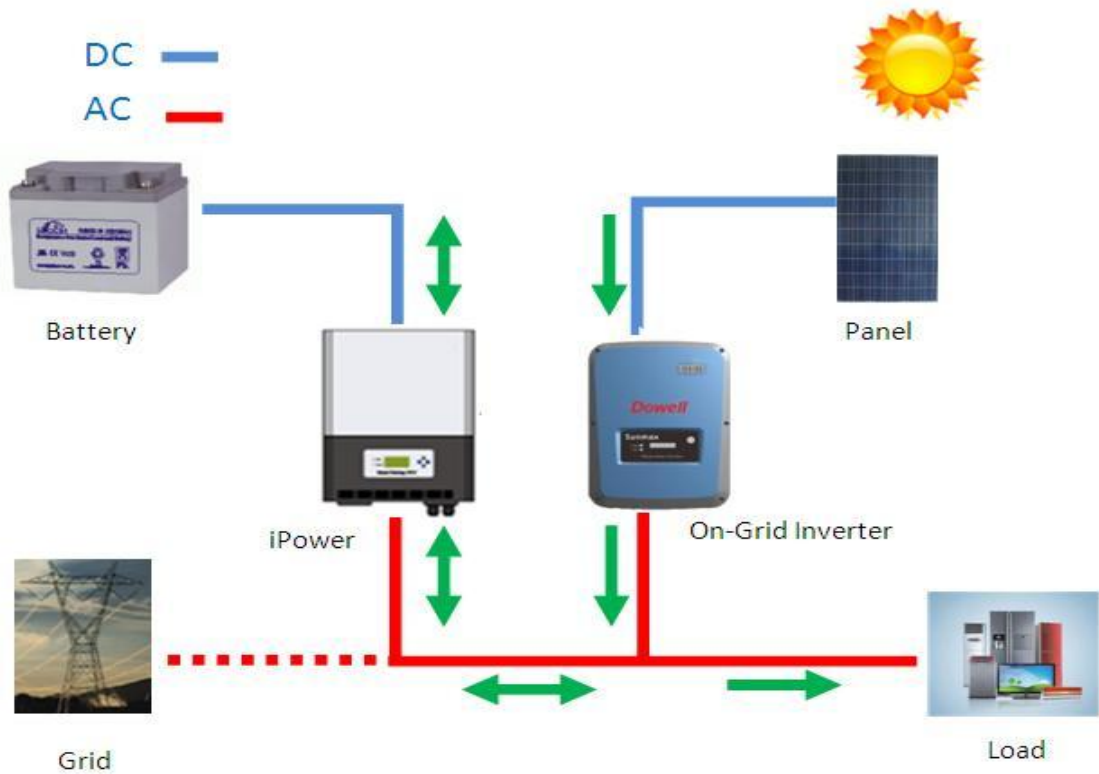
- Seamless integration with presently installed PV systems.
- Compatible with all brands of PV inverters.
- Able to form the basis of an off grid system.
- Unit has a timer to take advantage of cheaper electricity pricing so customer can charge when it is cheaper (where applicable).
- Manage your energy 24 hours a day.
- Fully automatic functions and operation.
- Easy to install and easy to operate
- It can be installed in different configurations to work in the way you want it to.
- Able to handle input not only from the grid but also alternative sources such as a diesel generator or wind power, if necessary.
- 5 years manufacturers warranty
- Lowers your electricity bills.
- Saves you money!

Some Typical Configurations

Configuration 1

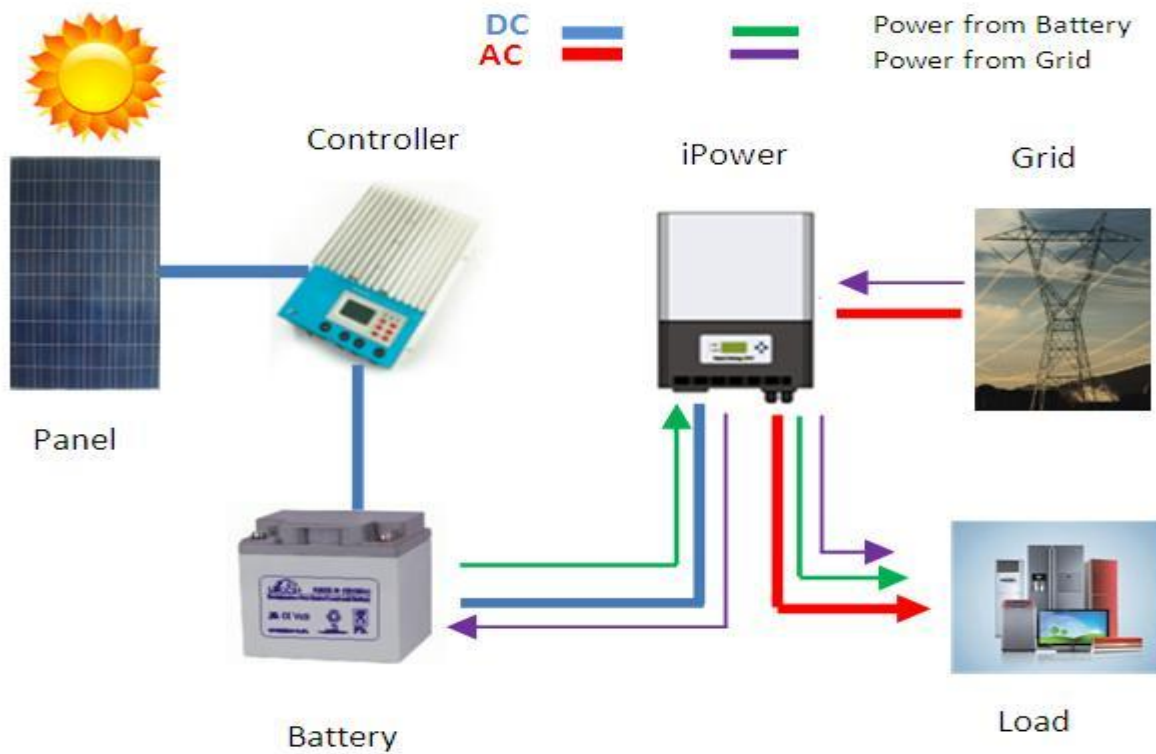


Configuration 2

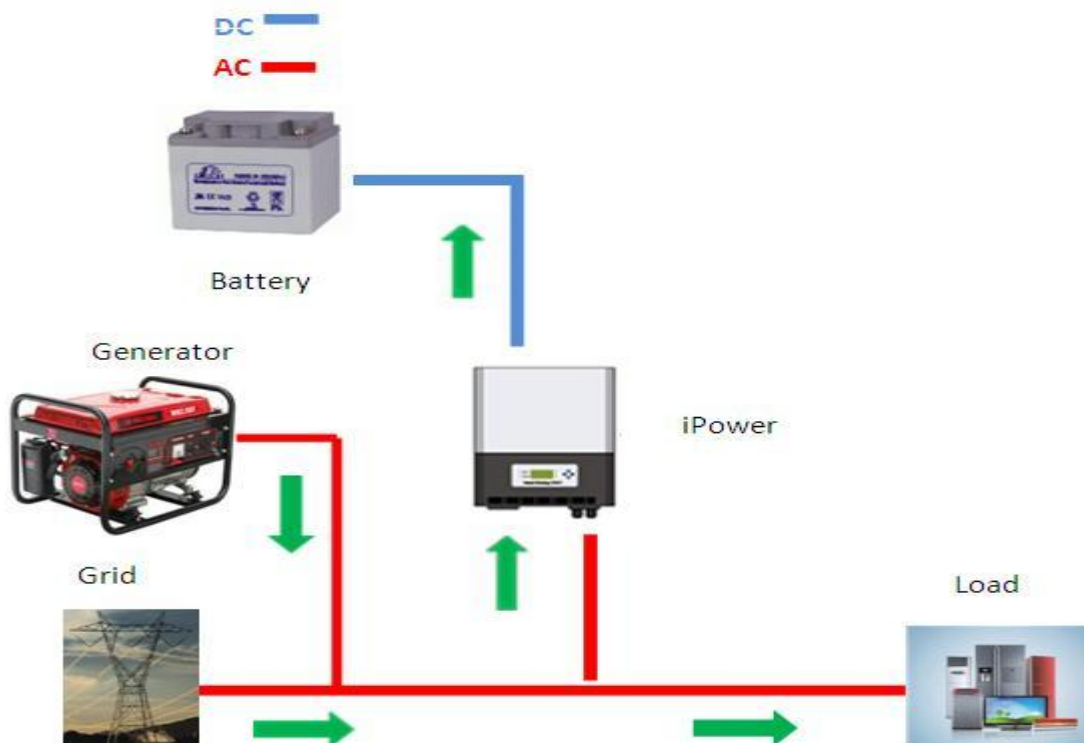


## Some Typical Configurations

### Configuration 3



### Configuration 4





## Technical Specifications for iPower Smart Backup Inverters

Specification	2kW	3kW
<b>Battery Data</b>		
Nominal DC Voltage	48 V	48 V
Nominal Charging Current	41—63V	41—63V
Charging Current Range	5—25A	5—50A
Battery Capacity	100Ah	200Ah
Discharge Depth	80%DOD	80%DOD
Voltage Range	42 - 60 V	42 - 60 V
Nominal Discharging Current	40A	60A
Max. Discharging Current	50 A	75 A
Battery Type	NiCd,Li-ion,AGM,Gel	NiCd,Li-ion,AGM,Gel
<b>AC Output</b>		
Nominal AC output (on-grid)	2000 W	3000 W
Nominal output power (off-grid)	2000 VA	3000 VA
Overload capacity	110%:474s 125%: 300s; 200%: 0.4s	110%:474s 125%: 300s; 200%: 0.4s
Nominal Output Voltage (on-grid)	220V/230 V/240V	220V/230 V/240V
Inverter output voltage (off-grid)	220V/230 V/240V	220V/230 V/240V
Nominal Output Current	9:00 AM	13 A
Output Voltage Range	180 V - 265 V	180 V - 265 V
Voltage Frequency	50 /60Hz±1%	50 /60Hz±1%
The grid current harmonics	< 3.0 %	< 3.0 %
Harmonic voltage inverter	<2%	<2%
Efficiency	94.20%	94.20%
Feed-in Phase	Single Phase	Single Phase
Max. Output Current	30A	30A
AC Input Frequency Range	45-55HZ/55-65Hz	45-55HZ/55-65Hz
Switching time	<20ms	<20ms
Output Wave Form	Sine Wave	Sine Wave
<b>Protection Function</b>		
Over Discharge Protection	Yes	Yes
Overload Protection	Yes	Yes
Overvoltage Protection	Yes	Yes
Short Circuit Proof	Yes	Yes
Over temperature Protection	Yes	Yes
<b>General Data</b>		
Ambient Temperature	- 25°C ... +50°C	- 25°C ... +50°C
Altitude	< 3000 m	< 3000 m
Noise	< 30 dB	< 30 dB
Standby Loss	5W	5W
Topological Structure	Transformer	Transformer
Cooling Method	Fan	Fan
IP Degree of Protection	IP21	IP21
DC switch	Yes	Yes
Display	LCD	LCD
Optional communication Methods	RS485 / WIFI	RS485 / WIFI
Size (W*H*D)	560*380*230mm	560*380*230mm
Weight	32kg	40kg



# ***Dowell***

**Tailor Made**

Building 3, 8 Lanxiang Road, Wujin Economic Development Zone  
Changzhou, Jiangsu Province. P. R. China

[www.dowellelectronic.com](http://www.dowellelectronic.com)

email: [sales@dowellelectronic.com](mailto:sales@dowellelectronic.com)