超威®
CHILWEE

Product Manual

LET THE WORLD USE THE
GREEN ENERGY OF CHILWEE



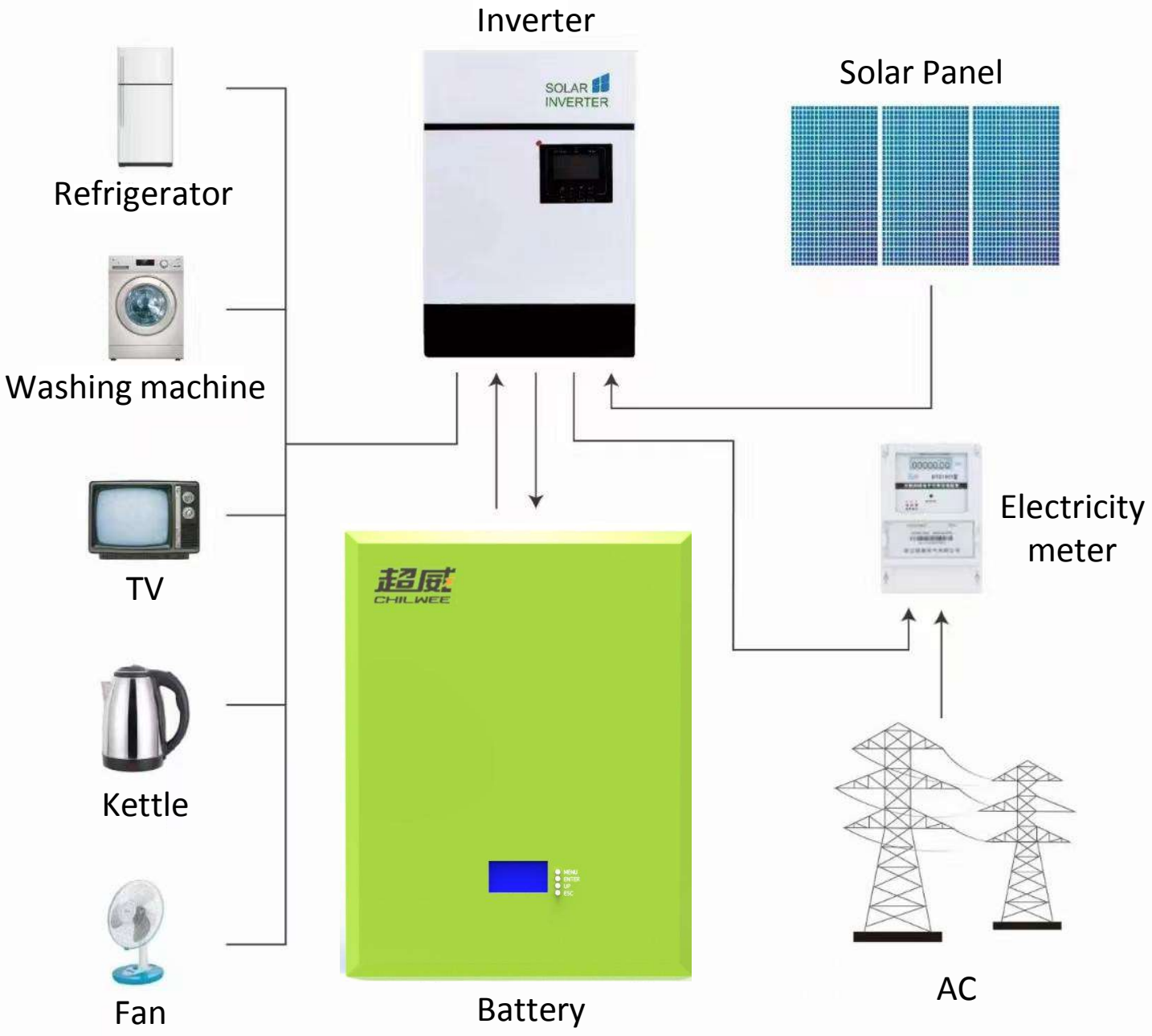
Shenzhen Chaowei Renewable Energy Co., Ltd.



ABOUT CHILWEE

Chilwee Group was founded in 1998 and listed on the main board of Hong Kong in 2010. With over 20,000 employees and 108 subsidiaries worldwide, Chilwee Group is a professional provider of green energy solutions. Since its establishment, the company has been adhering to the development mission of "enabling the world to use super green energy" and the development goal of becoming the world's top ten new energy enterprises. The technology and innovation of its products have constantly won the recognition of the market and the trust of consumers, and its leading products have been exported to more than 100 countries and regions around the world. Its comprehensive strength ranks 199 in China's top 500 enterprises, 93 in China's Top 500 Manufacturing enterprises, 63 in China's top 500 private enterprises, and 1 in China's Top 100 Light Industry new energy batteries. It has been leading China's battery industry for many years.

Home energy storage products introduction



Model : 48V 100Ah- Wall mounted

Product features：



- Use safer lithium iron phosphate batteries(LiFePO4)
- Integrated Intelligent Battery Management System (BMS):
  - Prevent overcharge, overdischarge, and high current inside the battery to ensure battery safety and reliability.
  - Balance each battery to extend battery life.
  - With RS232,RS485 and CAN communication interfaces, it can meet the communication needs of different devices
- With LCD display to display detailed battery parameters
- Compatible with most inverters on the market
- Mainly used in home energy storage system,support OEM/ODM

Electrical Characteristics	
Nominal Voltage (V)	51.2V
Nominal Capacity (Ah)	100Ah@0.2C
Nominal Capacity (Wh)	5120Wh
Cycle Life	≥5000 Cycles @0.2C/0.2C
Serial number	16S1P
Commnication port	RS232/RS485/CAN

Charging Parameters	
Charge Voltage (V)	56V
Charge current (A)	20A (Recommend)
Max charge current (A)	25A
Peak charge current (A)	50A
Charging mode	Constant current / constant voltage

Discharge Parameters	
Discharge Cut-off Voltage	45V
Discharge current	20A (Recommended)
Max discharge current	100A

Operating Environment	
Charge Temperature	0℃ to 55℃,
Discharge Temperature	-20℃ to 60℃,
Storage Temperature	-20℃ to 50℃,

Other Parameters	
Shell Material	Sheet metal chassis
Battery Size	552 (L) *430 (W) *220 (H) mm
Pack Weight	47Kg
Number of parallel connections	Max : 10
Protection Class	IP55
Installation Method	Wall-mounted)
Certificate	UN38.3/MSDS/CE

Usage Note:

1. The charging voltage of the battery shall not exceed the parameters in the specification
2. When the battery is in use, the discharge voltage shall not be lower than the parameters in the specification, otherwise the low-voltage protection may be triggered
3. The charging current and discharging current of the battery shall not exceed the parameter range of the specification, otherwise the battery may be damaged