



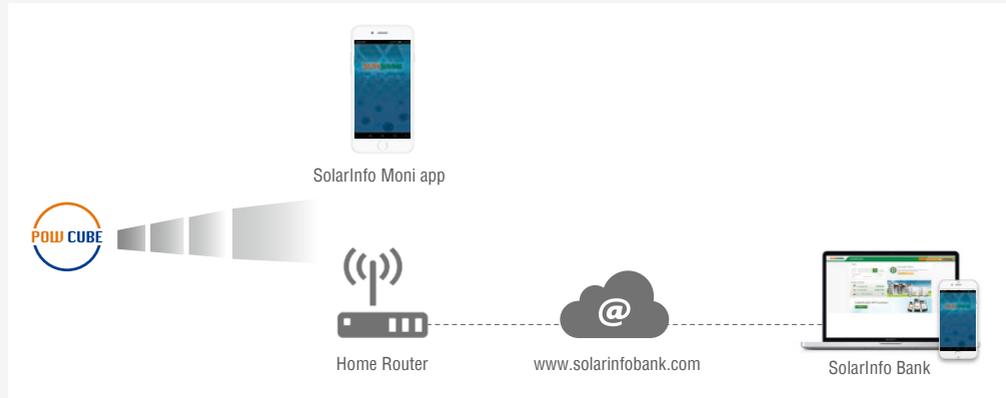
Residential Energy Storage System



POW Cube 4.8

Green and Effective

PowCube 4.8



5 kW hybrid inverter

4.8 kWh / 9.6 kWh / 14.4 kWh battery



Use more of the solar

1580 kWh solar energy stored by the battery and used later in evening peak-time



Save more

\$854 saved by using solar power and battery energy instead of purchasing from the electricity retailer



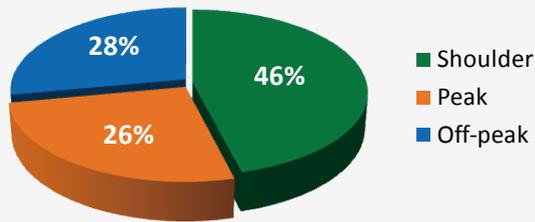
Make a better world

3100 t CO₂ reduced to save the environment

* Annual data based on a case study of a house with family of four on fixed electricity rate, one battery pack. The savings and benefits may vary depending on individuals.

Benefits of PowCube 4.8

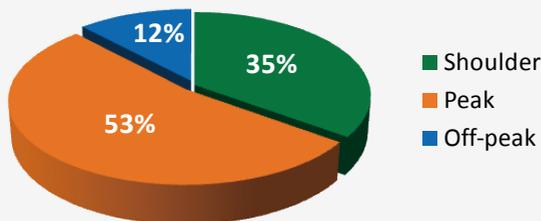
Energy consumption



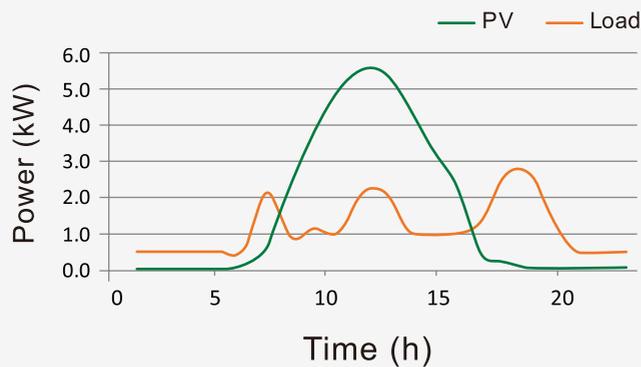
Premium charged during peak period

The least energy usage during the peak period contributes the most of the electricity bill.

Electricity bill



PowCube 4.8 – An ideal choice to **minimise** your peak time electricity bill



Mismatch of PV generation and load consumption

The consumption period does not match the PV output well either with evening peak, high day and evening peak or other energy usage habits in a house.

PowCube 4.8 – An ideal choice to **maximise** your solar efficiency

Sungrow residential energy storage system PowCube 4.8 is an ideal choice to facilitate the self-consumption of PV power by storing the excess power and using later in the evening.

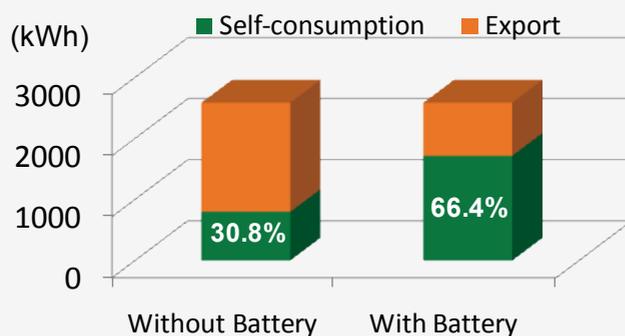
Trial Installation 1

Electricity usage type : Evening peak
Installed Dec 2016 One battery pack

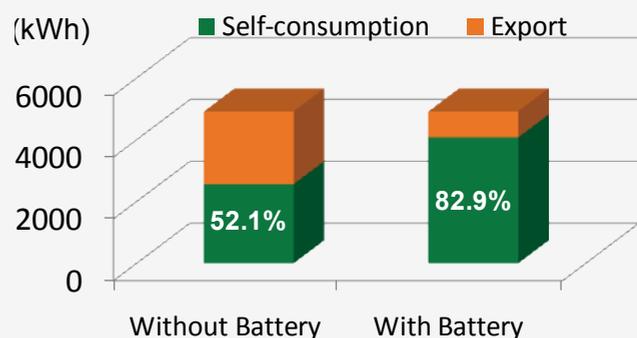
Trial Installation 2

Electricity usage type : High day and evening usage
Installed Jan 2017 Two battery packs

Self-consumption increase 35.6%



Self-consumption increase 30.8%

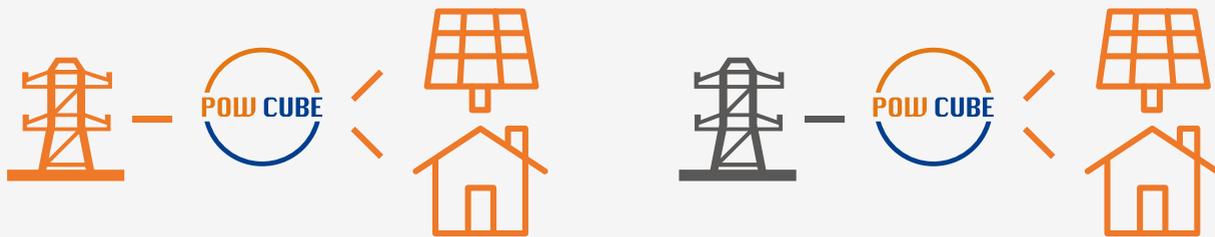


System Solution

Standard energy storage system

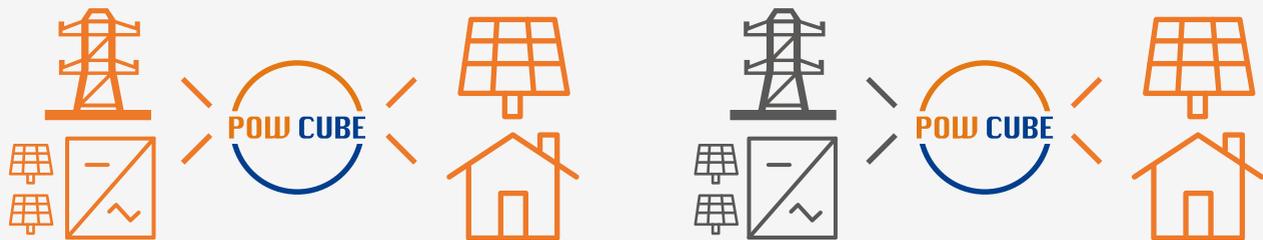
The PowCube 4.8 entitles the home owner to manage the house energy usage, saves the electricity bills by shifting the PV power to the peak-time usage.

With the EPS box connected, the system is capable of supplying power for essential loads in the event of a grid interruption or blackout.



Retrofit solar system

The PowCube 4.8 is compatible with any single-phase solar grid-connected inverters. An existing solar system can be retrofitted to be a solar energy storage system with the addition of the PowCube 4.8.



With the Sungrow meter installed, the system could be configured to a zero-export or partial-export system to meet the utility grid restriction. In this case, the inverter output will adjust to match the load consumption power continuously to restrict the export power.



Green and Effective

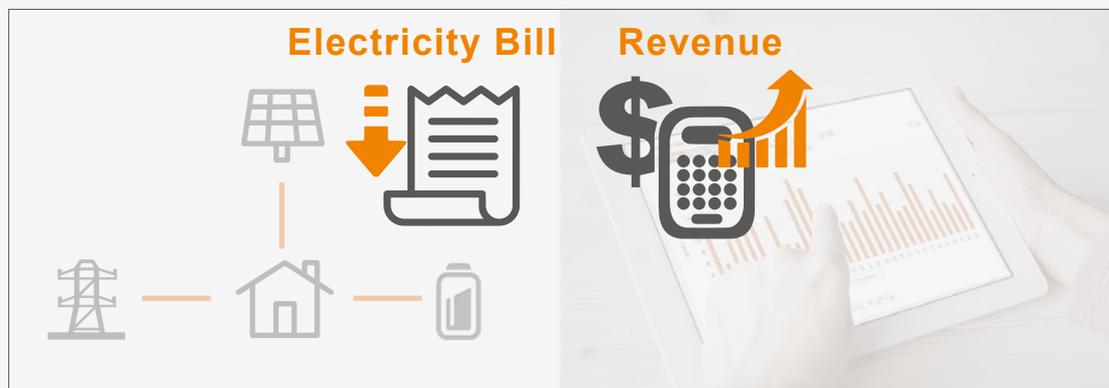
Features of PowCube 4.8



Intelligent system management to maximise the revenue

- More solar energy is used rather than selling back with low profit thanks to the optimised EMS
- Customisable battery usage scenarios and smart load control

Maximise the return of your investment by matching battery usage to peak tariff period and charging the battery during off-peak tariff period. Less restriction of the utility grid, use energy whenever you need, forget about the peak time.

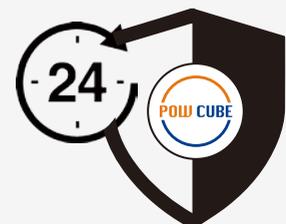


Optimised EMS and BMS for prolonged battery

- Optimised BMS cooperating seamlessly with EMS
- Cutting-edge bidirectional active cell balancing
- Smart hibernation technology to maintain battery state of health



Bidirectional Active Cell Balancing



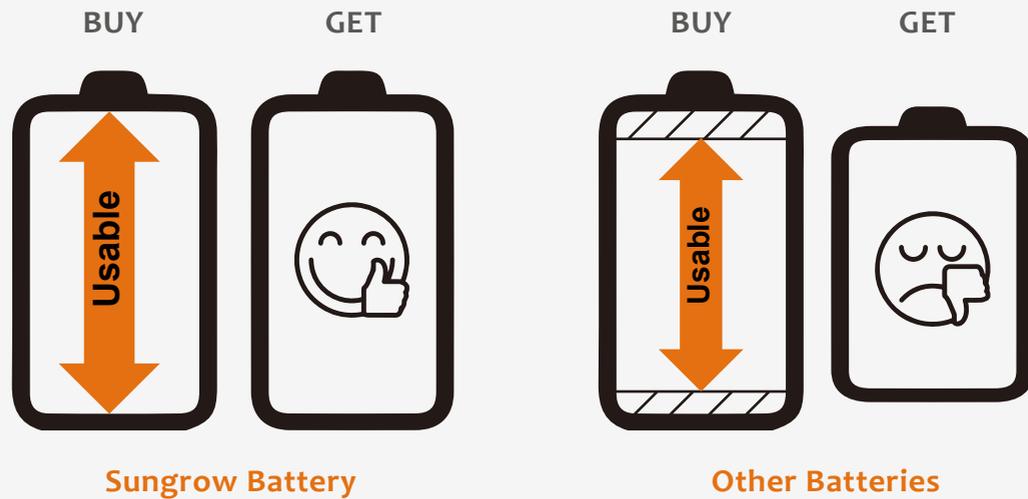
Smart hibernation 24/7 protection



DOD > 95%, more usable energy

- High reliability and safety with Samsung cells and Sungrow smart control system
- Over 95% depth of discharge to maximise the usable capacity

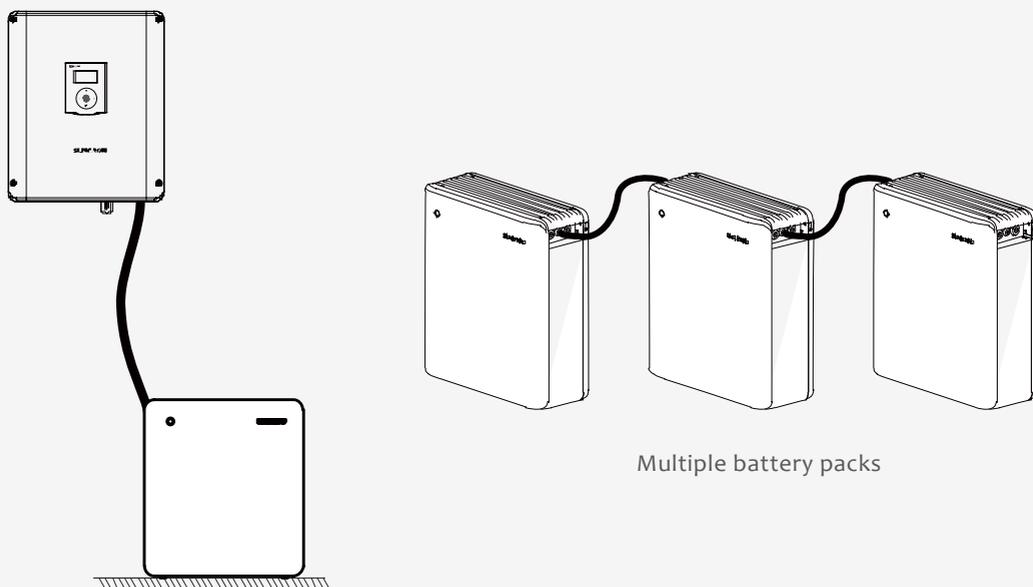
PowCube offers you almost full available energy second to none.



Simple installation and space saving

- Module design of inverter and battery
- Suitable for both free-standing and wall-mountable installation
- Simple setup for multiple battery packs

Make the installation easier and more flexible than ever.





Easy one-click online system firmware update

- Onsite one-click system firmware update
- Remote system firmware update service

No more onerous work of firmware update for new features.



Onsite Update

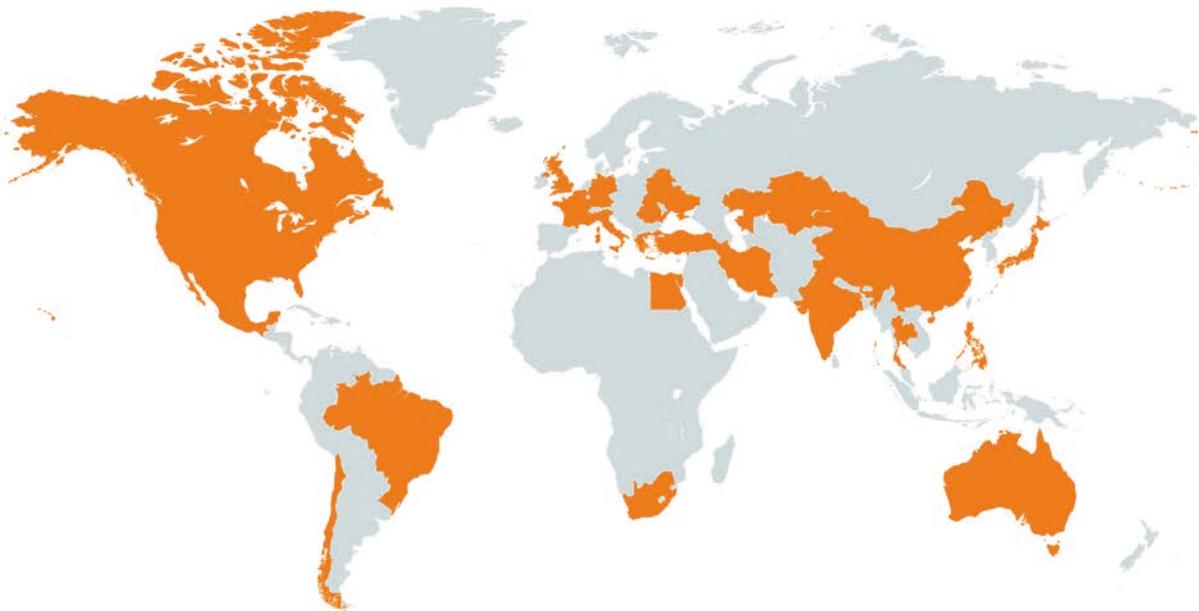


Remote Update



Full service

Systematic solution, to professional Sungrow team for one stop solution and service.





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