

RENLE

Technical innovation benefits the world.
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Container Type Energy Storage System



MAKES ENERGY CONSUMPTION MORE ECONOMIC, SMARTER AND SAFER

Based on its manufacturing power as an ODM factory of ample resources in upstream material and mastered technique in battery, RENLE develops the lithium iron phosphate battery of a longer service life and lower cost to provide clients integrated solutions and products used in battery modules, clusters, container energy storage system, various solar storage systems, and etc. With its modular design, level 3 BMS protection, efficient PCS / solar PV integrated device, intelligent EMS management, RENLE's product is tailored for vast needs in power grid, industry, commerce, data center, backup power, household energy storage, low-speed electro-mobiles, and etc.



Container-typed energy storage product

- ⊙ Modularization in product design
- ⊙ Integration in system
- ⊙ Diversification in system expansion & upgrade



Energy storage solution

- ⊙ Peak load and frequency regulation of energy storage
- ⊙ Smart microgrid
- ⊙ Backup power supply system
- ⊙ Household energy storage system



Sophisticated project delivery & management

- ⊙ Customized storage battery of optimal performance & controllable cost
- ⊙ An experienced team expert at project developing



Operational maintenance

- ⊙ Rapid response
- ⊙ Real-time big data
- ⊙ Remote control

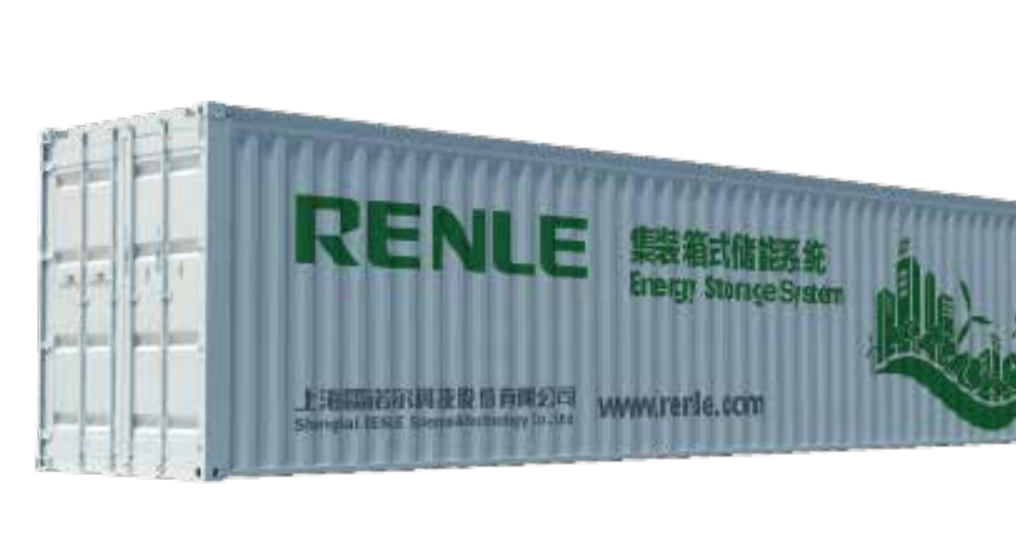
Structure of Large Container-typed Energy Storage System



Electric core



Battery module (BMS contained)



Container-typed energy storage system



Rack-mounted battery clusters in energy storage system

Features of Energy Storage System

Modular structure enables a flexible combination of different capacities and voltages within 1000V, and is easy for maintenance;

Design of a level 3 battery management system provides the highest reliability;

Customized lithium iron phosphate battery ensures high safety performance and a long service life of more than 10 years.

Being small in size, light in weight, container type in design, convenient for handle and flexible for storage, the product applies to various occasions.

RENLE's products are certified by standards of TUV, CE, UN38.3, GB / T36276-2018, and etc.

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Small & Medium Sized Solar Power System



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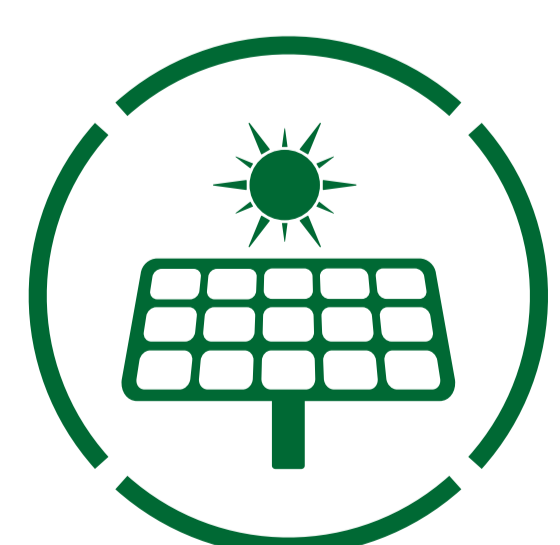
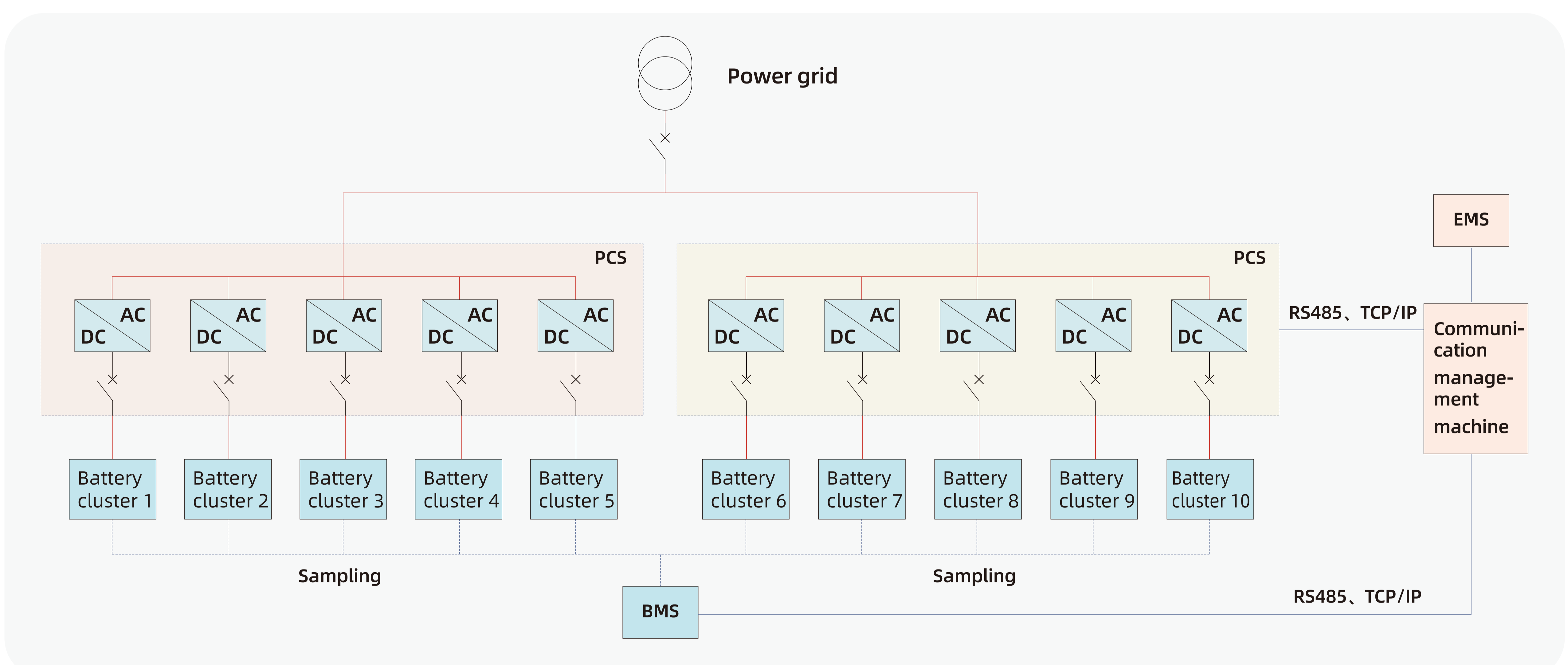
Small sized solar power storage system

- ◎ 0.3kW~2kW
- ◎ 5kW
- ◎ 10kW
- ◎ 3kW
- ◎ 8kW

Medium sized solar power storage system

- ◎ 30kW/71.42kWh
- ◎ 30kW/142.85kWh
- ◎ 30kW/130.94kWh
- ◎ 60kW/226.18kWh
- ◎ 100kW/214.27kWh

Topological Diagram of Energy Storage System



Power generation side

- ◎ Smoothing intermittent energy
- ◎ Peak load and frequency regulation
- ◎ Boost new energy utilization



Power grid side

- ◎ Auxiliary service
- ◎ Slowing needs in capacity expansion



User's side

- ◎ Peak load shifting
- ◎ Stabilizing loads and demands
- ◎ Increasing supply reliability and power quality



Island, off-grid energy storage

- ◎ Microgrid
- ◎ Energy storage in un-electrified regions