HUAWEI

LUNA2000-215 Series

108kW/215kWh



World's 1st C&I Smart Hybrid Cooling ESS

- 1 Cell-to-Consumption Safety Design
- 2 91.3% Round Trip Efficiency
- 3 100% Capacity Utilization
- 4 2% Higher State of Health
- 5 Smart O&M
- 6 One-Fits-All

1 Born Safe Safe for Whole Life

Cell-to-Consumption safety architecture

Cell
100+ tests, thermal insulation

Pack
Positive pressure oxygen barrier

System
Directional smoke exhaust, Ms-level shutdown

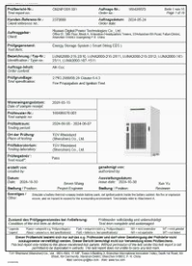
Consumption
Top explosion venting

1st TUV Safety Prime Certification

Safety Prime

Safety Plus

Basic Safety



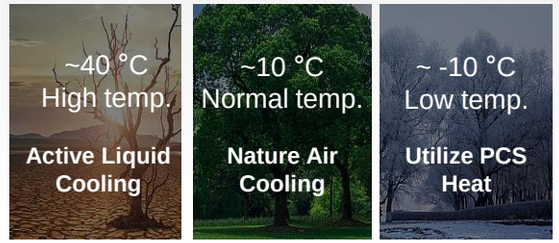
2 Unique Hybrid Cooling Highest RTE 91.3%

ESS efficiency related factors

Temp. control 51%	Electrical Circuit 40%	Cable 9%

Huawei

Multi-modes save temp. control energy consumption



VS

Industry

Single liquid cooling mode, high temp.

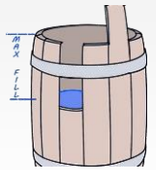
control energy consumption

RTE: Round Trip Efficiency

3 Unique Pack Optimizer 2% More Energy

Cask principle

Volume decided by shortest wood plate



Huawei

Unique pack-level optimizer eliminates cask effect



Un-healthy pack

VS

Industry

can't fully charge and discharge



Un-healthy pack

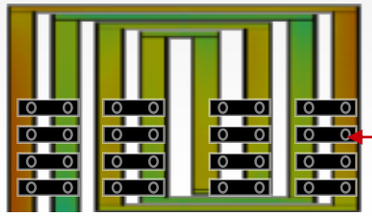
DOD: Depth of Discharge

4 Unique Heat Dissipation 2%+ Higher SOH

Huawei: dual-loop flow path

<2.2℃

Cell temp. difference

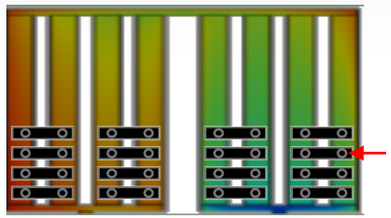


VS

Industry: U-shaped flow path

>3℃

Cell temp. difference



SOH: State of Health

5 Smart O&M 10% Higher Profitability

Smart multi-mode mgmt.

↑ 10%

Revenue

Automatic SOC calibration

↓ 2 times/year

Site visit

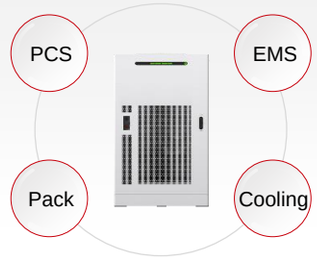
10 Years coolant lifespan

↑ 5 years

Lifespan of coolant

6 One-Fits-All

Integration design, prefabricated installation



On/off-grid application

No need transformer

PCS: 3 phase 4 wire

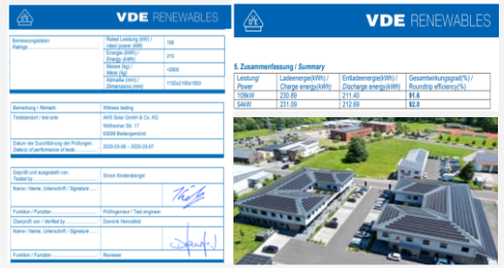
High quality power supply

Huawei **≤ 1.5%** *VS* Industry **≤ 3%**

*THDi

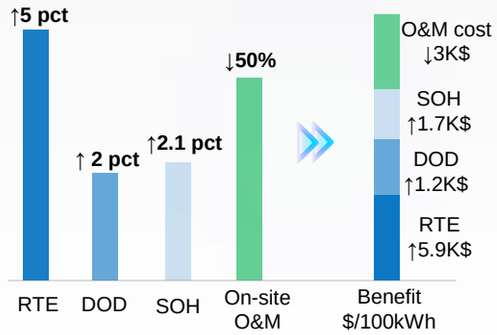
**THDi: total harmonic distortion (current), some industries require low THDi*

VDE Test Results
RTE: 92.0% @0.25C



- **Project:** Business Campus in Frankfurt
- **Solution:** Huawei 3*215kWh ESS
- **Scenario**: Time of Use + Peak Shaving

Revenue increased by 8.8K $/100kWh
OPEX decreased by 3K $/100kWh



Installationn and Commissioning Video