



PRODUCT PORTFOLIO

GUIDE TO SMARTER STORAGE & ENERGY EFFICIENCY.

INDEX



1

ABOUT US

- What We Do
- Why Us

2

SERVICES

- Service Offering
- Brands We Represent

3-7

HUAWEI FUSIONSOLAR

- Overview
- LUNA Containers
- Grid-Tied Inverters
- SmartLoggers
- LUNA-241 ESS

8-9

LITHIUM VALLEY

- Overview
- Containerised C&I ESS

10-11

ENCOMBI

- Overview
- Energy Management Systems

12-14

SUNWODA ENERGY

- Overview
- OASIS L261 All-in-One
- OASIS L261 Battery

15

CONTACT US

- Contact Details
- Support Portal



ABOUT US

WHAT WE DO

WHY US

COMMERCIAL SOLUTIONS

Kathea Energy was founded in 2016 and offers boutique, high-value-added distribution to manufacturers looking to make their mark in South Africa.

Kathea Energy remains privately owned, with >20 employees, headquartered in Johannesburg, and also has a presence in Cape Town and Port Elizabeth.

APPROACH

Kathea Energy only sells to EPCs and doesn't go directly to market, and it invests in high-calibre sales, pre-sales, and post-sales teams.

We prefer to represent fewer manufacturers to ensure we remain specialists in what we do.



Battery

Commercial BESS
with EMS



Panels

Top Tier
PV Panels



Inverters

Grid-Tied or Hybrid
or AC Coupled



Services

Support and
Commissioning

SERVICES

SERVICE OFFERINGS

BRANDS

BRANDS WE REPRESENT

COMMISSIONING

We offer commissioning services to our partners on containerised and non-containerised ESS solutions to ensure successful deployments.

FINANCE

In cooperation with our partner banks we enable our partners to offer monthly rental solutions to your corporate clients. Separate application does apply.

SUPPORT

We are here to support products that you purchased products and fulfill manufacturer warranties. Paid-for services are also available on request.

[SUPPORT PORTAL](#)



OVERVIEW



LUNA 2.5 - 5MWh Containers

Huawei's LUNA containerised energy storage systems deliver powerful, scalable storage from 2.5mWh to 5 mWh, designed for large-scale commercial, industrial and utility applications.

- Up to 5MWh in a single container
- Integrated PCS, battery packs and EMS
- AI-powered active safety features
- Modular design for phased expansion

LUNA2000-241kWh Commercial BESS

LUNA2000-241kWh is a high-performance battery energy storage system built for medium to large-scale applications that demand reliability, safety, and smart energy management.

- Easily scalable for growing energy needs
- Compatible with PV and grid-tied systems
- Real-time monitoring with AI-powered diagnostics
- LFP cells + multi-layer protection

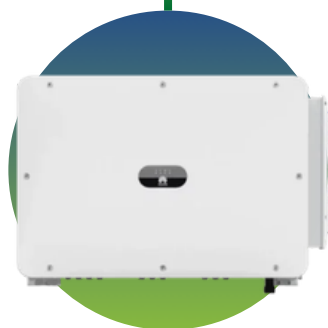


Huawei FusionSolar

Grid-Tied Inverters

Huawei's Three-Phase Grid-Tied Inverters offer a powerful and reliable solution for commercial and industrial solar systems, with models ranging from 30kW to 330kW

- Up to 98.7% efficiency with multiple MPPTs
- Integrated with Huawei FusionSolar platform
- Advanced grid support functions
- IP66 rating, natural cooling



Small Scale Utility

Huawei's small-scale utility solutions bridge the gap between C&I and full utility -scale, offering a robust, integrated package for projects in the 500kW to 10MW range

- Optimised system design (PV + Storage + Smart EMS integration)
- Industry-leading inverter efficiency and multi-MPPT
- Centralised monitoring, IV cure diagnosis, AI alerts
- Suitable for land-based, carport and hybrid deployments



CASE STUDY

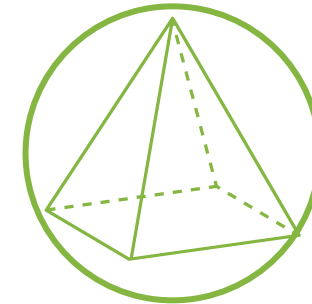
TYPICAL BESS SLD
LAYOUT

PRODUCT CATALOGUE

LUNA 2.5 - 5MW CONTAINERS



All- Architecture Safety



All-Scenario Grid-Forming

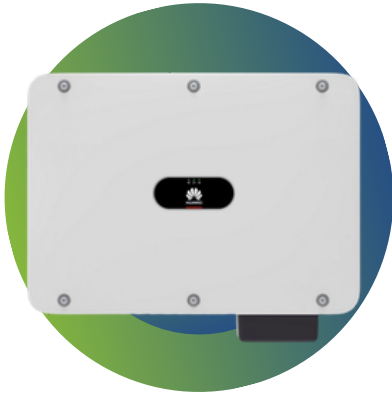
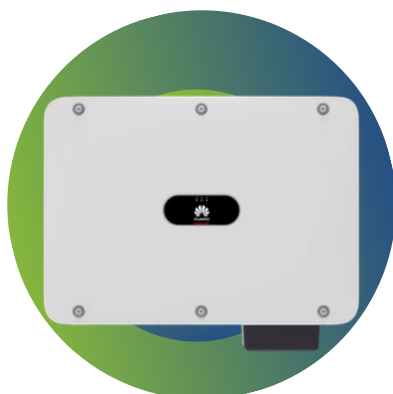
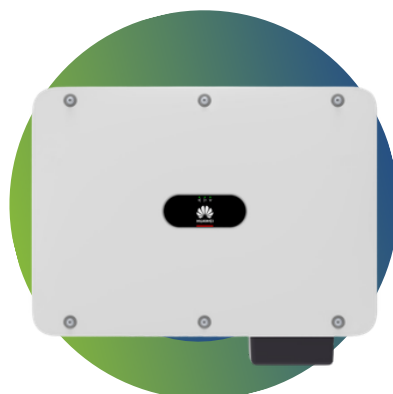
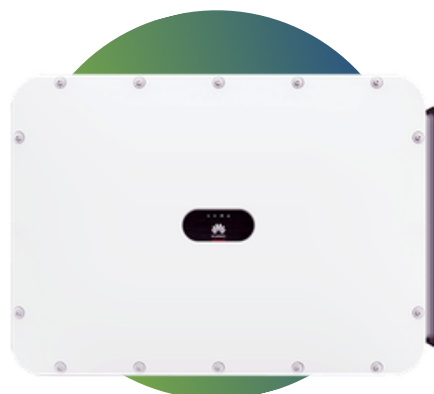


All-Lifecycle Cost-Effectiveness



All-Rounder Digitisation

GRID TIE INVERTERS

	30/36/40KTL	50KTL	100KTL	150KTL	330KTL
					
Max. Efficiency	98.7%	98.5%	98.6%@400V, 98.8% @480v	98.6%@400V, 98.8%@480V	>=99.03%
Max. input voltage	1100V	1100 V	1100 V	1100 V	1500 V
MPPT Operating Voltage Range	200V~1000V	200-1000V	200-1000V	200 -1000V	500 ~1500 V
Rated Output Power	30000- 40000W	50000W	100000W	150000W	330000W
Max. Apparent Power	33000 - 44000 VA	55000VA	110000 VA	165000VA	330000VA
Rated AC Grid Frequency			50/60 Hz		
Dimensions	640 x 530 x 270mm	640 x 530 x 270mm	1035 x 700 x 365mm	1000 x 710 x 395mm	1048 x 732 x 395mm
Degree of Protection			IP66		

SMARTLOGGERS

3000A01EU

For simple Grid-Tied Solutions



SPECIFICATIONS

5000B03EU

Handle ESS (LUNA) but ONLY on-grid
and also has MBUS communications



SPECIFICATIONS

MGC5000B06GL

ESS full on/off grid sites

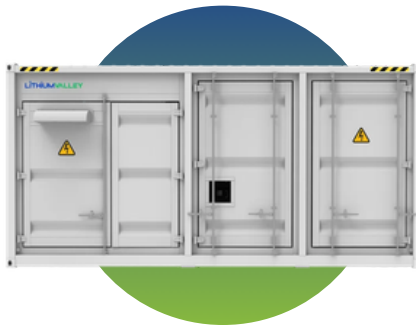


SPECIFICATIONS

LUNA-241 COMMERCIAL STORAGE CABINET



Rrted Capacity	241.0KWH
Maximum Cycle Efficiency	91.3%
Depth of Charge and Discharge	0~100%
Operating Temperature Range	-30°C ~55°C (.50°C Derating)
Storage Temperature Range	-35°C ~60°C
Operating Humidity Range	0~100% RH (non-condensing)
Maximum Operating Altitude	4000m
System Temperature Control Mode	Hybrid Cooling
Balance Mode	Active Balance
SOC Calibration Mode	Automatic
Fire Suppression Mode	Pack-Level Oxygen Barrier, Directional Gas Exhaust, Top explosion vent, Aerosol
Auxiliary Power Supply	176~300Vac, Single Phase, ≤5kW
Communication Port	Ethernet/Optical Fiber
Communication Protocol	Modbus TCP
Protection Degree	IP55
EMC Protection Rating	Class B
Noise (Rated Operating Condition)	≤65 dB (A)



CONTAINERISED C&I ESS

A turnkey solution for large-scale commercial and industrial energy needs. Housed in a fully integrated, transportable container, it combines high-capacity storage, advanced safety systems, and smart energy management, ideal for grid support, peak shaving, and backup power.



CASE STUDY

PRODUCT CATALOGUE

LITHIUM VALLEY

LITHIUM VALLEY

CONTAINERISED C&I ESS

AVAILABLE IN 10, 20, 40 FOOT CONFIGURATIONS , 250KW TO 1MW PCS , 2MWH

PCS Inverter

FFS

BESS Controller

Air Conditioner

Battery String

20/40 ft, Container solution
500 kW - 1mW PCS, 1 - 2mWh Battery

Air Duct

Battery String

PCS

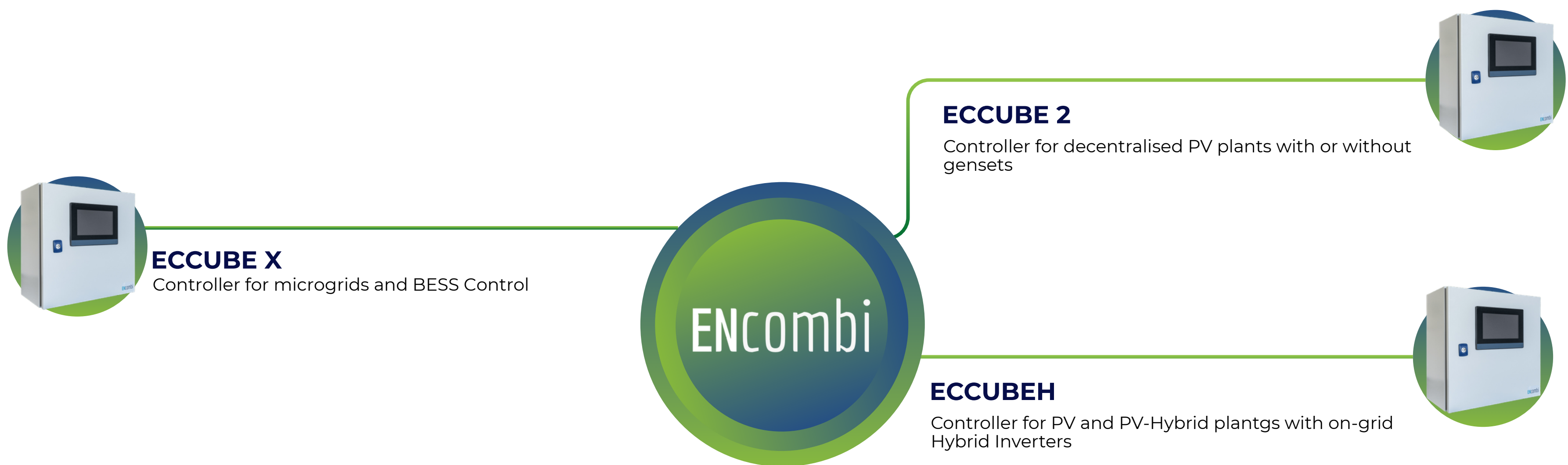
GridPoint Controller

Incoming Cabinet

FFS

Air Conditioner

10 ft. Container Solution
250 kW PCS, 500kWh Battery



PRODUCT CATALOGUE

TYPICAL SLD LAYOUT

ENCOMBI

ENERGY MANAGEMENT SYSTEMS

ENcombi

ECcube 2



ECpv2 Logger	Logs data from utility, genset and PV inverters
ECpv2 Solar	Only PV control. Inverter power unlimited
ECpv2 S	PV/Genset. Inverter power up to 100kW
ECpv2 M	PV/Genset. Inverter power up to 500kW
ECpv2 L	PV/Genset. Inverter power unlimited

ECcubeH



ECpvH Logger	Logs data from utility, gensets and PV Inverters
ECpvH Solar	Only PV control. Inverter power unlimited
ECpvH S	PV/Genset. Inverter power up to 100kW
ECpvH M	PV/Genset. Inverter power up to 500kW
ECpvH L	PV/Genset. Inverter power unlimited

ECcubeX



ECpvX Logger	Logs data from utility, genset and PV inverters
ECpvX Solar	Power Plant Control for Solar and BESS
ECpvX S	Microgrid up to 100kW BESS and 100kW Inverter
ECpvX M	Microgrid up to 500kW BESS and 500kW PV Inverter
ECpvX L	Microgrid unlimited BESS and PV Inverter capacity



ECpv variant of choice

ECcube is a plug-and-play control system for logging, power export and PV/genset control.

It covers applications from small kW and up to MW size plants.

It is IP66/65 with ECpanel7 and can be placed indoor or outdoor out of direct sunlight

Features

- ECpv controller
- 5 port LAN switch
- Breaker
- Power supply
- Terminals

Extra

- ECpanel7 7" touch screen
- 4G modem
- DNP3
- SNMP
- Surge protection
- Multiplexer for dual Modbus Master
- Digital input and outputs

OVERVIEW



OASIS L261 ALL-IN-ONE ESS

The Oasis L261 All-in-One is a fully integrated commercial and industrial energy storage solution designed to optimise energy costs, improve resilience, and support grid flexibility. Ideal for peak shaving, valley filling, and time-of-use optimisation, it stores energy during low-tariff periods and discharges when demand and electricity prices are highest, maximising renewable energy utilisation and reducing operating costs. The system also enables dynamic capacity during short-term peak loads, helping to defer costly infrastructure upgrades. Featuring an intelligent LCU with advanced monitoring, fault management and seamless integration with external EMS platforms. With optional STS for millisecond on/off-grid switching, the OASIS L261 All-in-One provides reliable emergency backup power for critical loads, making it a versatile solution for demanding C&I applications.



OASIS L261 BATTERY

The Oasis L261 is a fully integrated commercial and industrial energy storage solution designed for seamless integration with external hybrid inverters and PV systems. Supporting DC coupling, it maximises solar energy utilisation while reducing curtailment to improve system efficiency. Ideal for peak shaving and valley filling, it lowers electricity costs by storing energy during off-peak periods for use when tariffs are highest. Featuring a built-in intelligent LCU and cloud-based energy management platform, the OASIS L261 provides real-time monitoring, remote scheduling, cluster control, and advanced energy optimisation. It also supports microgrid applications and delivers reliable emergency backup power for critical loads, making it a flexible and dependable solution for modern commercial and industrial energy demands.



PRODUCT CATALOGUE

SUNWODA

OASIS L261 ALL-IN-ONE

SUNWODA
ENERGY

125kW/261kWh

Peak Shaving and Valley Filling

Oasis L261 All-in-One can store electricity from grid during “valley hours” and supply power during “peak hours” to balance energy distribution. It stores excess energy when renewable energy generation is high and releases it when renewable energy is insufficient, to help maximise the use of clean energy.

Time-of-Use

Stores energy from the grid during low-cost periods and generates during the high-cost periods, maximising power plant profits and shortening payback time.

Dynamic Capacity Extension

During short-term peak demand, the OASIS L261 All-in-One discharges stored energy to reduce transformer loading, helping prevent overloads and enabling dynamic capacity expansion without upgrading existing transformer infrastructure.

Emergency Back-up

Can be flexibly equipped with an STS for seamless on/off-grid switching in milliseconds, It's high reliability and power quality ensure uninterrupted supply for critical loads.

Remove Dispatching

The OASIS L261 All-in-One features an intelligent LCU for real-time monitoring, fault detection, early warnings, and remote upgrades. It also supports EMS integration for remote dispatch, cluster control, energy management, and improved asset visibility.



SUNWODA

OASIS L261 BATTERY

SUNWODA
ENERGY



PV and Storage Integration

OASIS L261 supports external hybrid inverter, DC coupling access to photovoltaic, integrated system design, one-stop service, high system integration, flexible layout of the scheme, and can reduce light abandonment, improve the utilisation rate of photovoltaic power generation.

Peak Shaving and Valley Filling

After the OASIS L261 external energy storage inverter is connected, the user charges the energy storage system when the price is low, and takes electricity directly from the Energy storage battery without purchasing electricity from the grid during peak, thereby avoiding the peak price and reducing costs.

Emergency Back-up

The OASIS L261 with an external hybrid inverter provides reliable back-up power during grid outages, protecting critical industrial and commercial loads and serving as an alternative to traditional UPS systems.

Micro-grid

OASIS L261 can form a microgrid system with inverters, photovoltaic arrays, loads, diesel generators, etc., which is widely used in remote mountain areas, areas without electricity, islands, communication base stations and other places.

Cloud Platform Scheduling

The built-in intelligent LCU system, real-time status monitoring and fault recording, fault warning, and fault location. Supports cloud platform functions to achieve remote scheduling, cluster control, and energy efficiency management, enabling global assets to be visualised and digitised, and improving management efficiency.



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