



PRODUCT PORTFOLIO

GUIDE TO SMARTER STORAGE & ENERGY EFFICIENCY.

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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 or homeowner clients. Separate application does apply.

SUPPORT

We are here to support products that you purchased products and fulfill manufacturer warranties. Ad hoc paid-for services are also available.

[SUPPORT PORTAL](#)



OVERVIEW



LUNA 1 - 4.5MW CONTAINERS

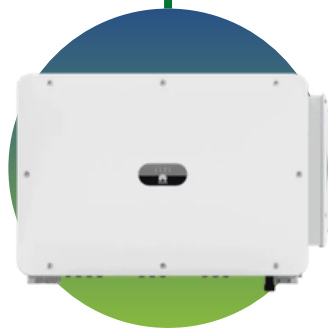
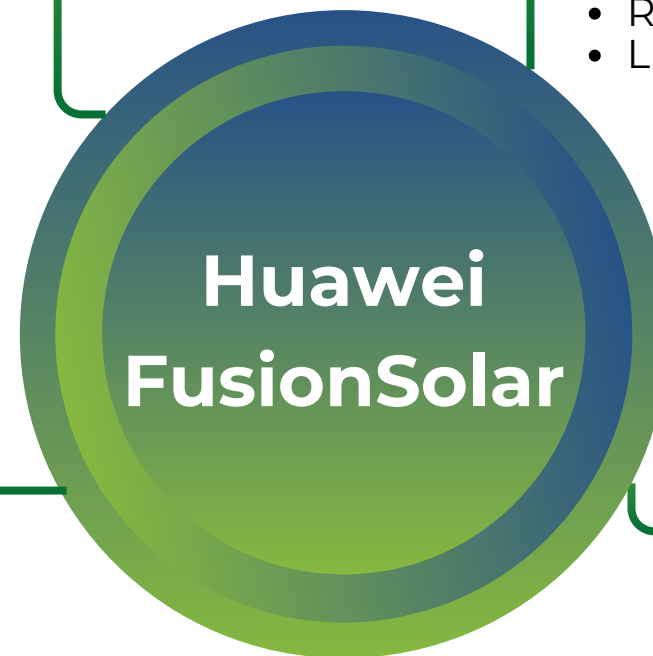
Huawei's LUNA containerised energy storage systems deliver powerful, scalable storage from 1MW to 4.5 MW, designed for large-scale commercial, industrial and utility applications.

- Up to 4.5MWh in a single container
- Integrated PCS, battery packs and EMS
- AI-powered active safety features
- Modular design for phased expansion

LUNA2000-215KWH COMMERCIAL BESS

LUNA2000-215kWh 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



GRID TIE INVERTERS

Huawei's Three-Phase Grid-Tied Inverters offer a powerful and reliable solution for commercial and industrial solar systems, with models ranging from 15kW 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

PRODUCT CATALOGUE



LUNA BESS CONTAINERS

1MW



2MW



4.5MW



DC Rated Voltage	1 250V	1 250V	1 331.2V
DC Max. Voltage	1 500V	1 500V	1 500V
Nominal Energy Capacity	1 016kWh	2 032kWh	4 472kWh
Container Configuration		6 058 x 2 896 x 2 438mm	
Container Weight	≤ 20t	≤ 30t	≤ 41t
Operation Temp. Range		~30°C ~55°C	
Storage Temp. Range		~40°C ~60°C	
Cooling Method	Smart Air Cooling	Smart Air Cooling	Liquid Cooling
HVAC Configuration	3 HVACs	8 HVACs	
Fire Suppression Agent	FM~200 or Novec 1230™	FM~200 or Novec 1230™	Water Sprinkler, Novec 1 230 (Optional)
Comms Protocol	Modbus TCP / IEC 104	Modbus TCP / IEC 104	Modbus TCP
Protection Degree		IP55	



GRID TIE INVERTERS

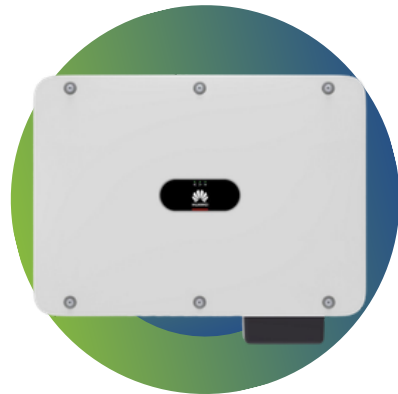
15KTL



20KTL



30/36/40KTL



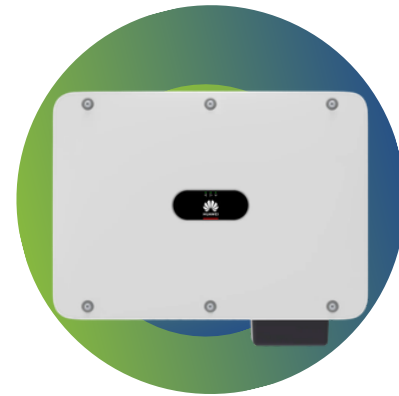
Max, Efficiency
 Recommended Max PV Power
 Max. input voltage
 Full-load MPPT Voltage Range
 MPPT Operating Voltage Range
 Rated Output Power
 Max. Apparent Power
 Rated AC Grid Frequency
 Dimensions
 Degree of Protection

Max, Efficiency	98.4%	98.4%	98.7%
Recommended Max PV Power	22 500 Wp	30 000Wp	-
Max. input voltage	-	-	1100V
Full-load MPPT Voltage Range	410C-800V	440V-800V	-
MPPT Operating Voltage Range	-	-	200V~1000V
Rated Output Power	15 000 W	20 000 W	30 000- 40 000W
Max. Apparent Power	16 500 VA	22 000 VA	33 000 - 44 000 VA
Rated AC Grid Frequency			50/60 Hz
Dimensions	546 x 460 x 228mm	546 x 460 x 228mm	640 x 530 x 270mm
Degree of Protection			IP66

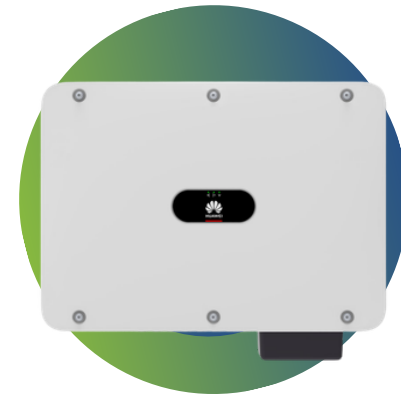


GRID TIE INVERTERS

50KTL



100KTL



150KTL

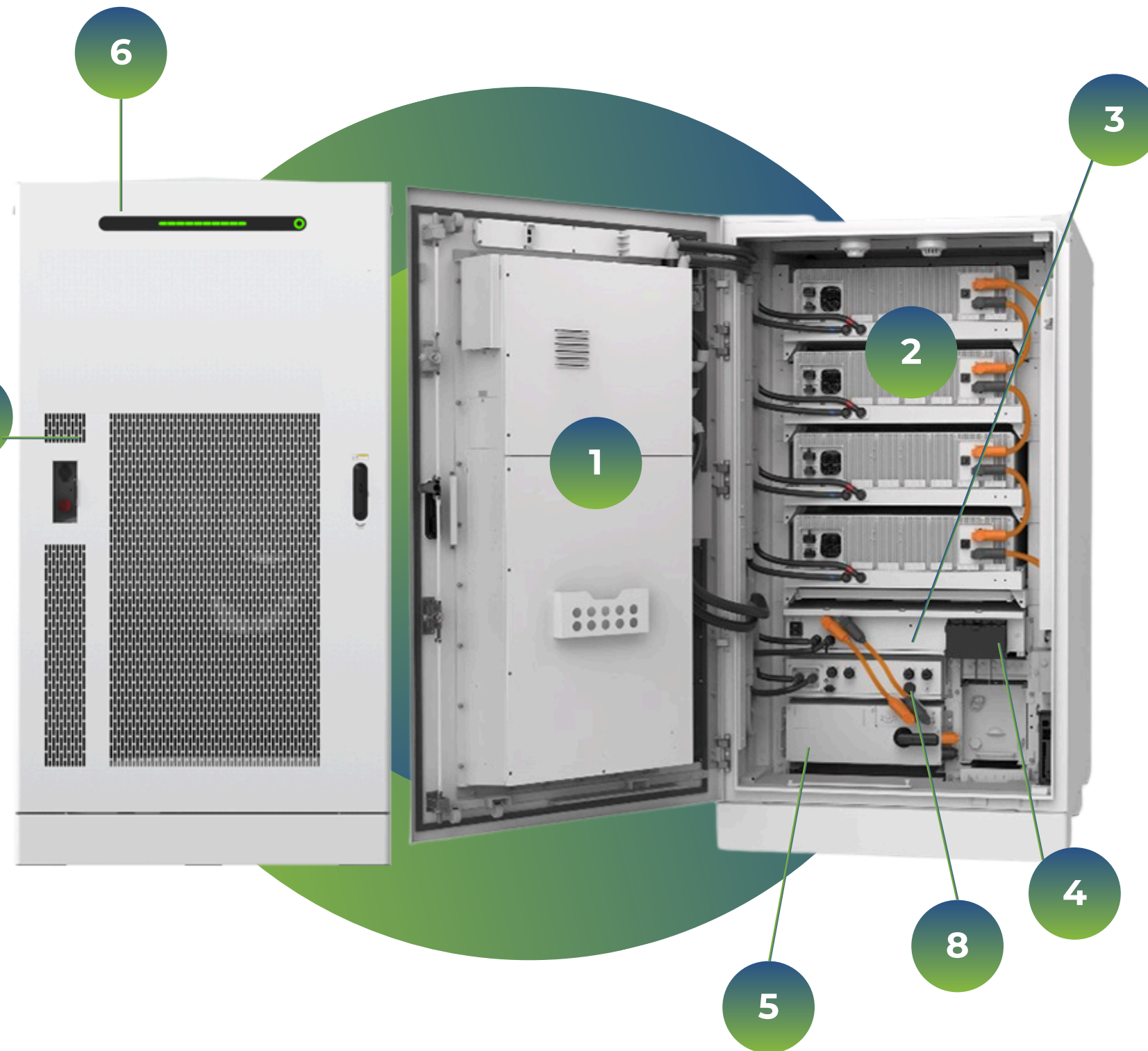


330KTL



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

LUNA-215 COMMERCIAL STORAGE CABINET



Rated Capacity	215.0kWh
Maximum Cycle Rate	0.5CP
Max. Cycle Efficiency	91.3%
Operating Temperature Range	-30` C~55` C (>50` C Derating)
Storage Temperature Range	-35` C ~60` C
Operating Humidity Range	0~100% (non-condensing)
Maximum Operating Altitude	4 000m
System Temperature Control	Hybrid Cooling
Fire Suppression Mode	Directional gas exhaust, Top explosion vent, Aerosol
Communication Protocol	Modbus TCP
Protection Degree	IP55
Noise (ROC)	65dB (A)

1. **Air-liquid intelligent cooling unit**
2. **Battery pack with optimizer 2.0 (53.8kW each)**
3. **Intelligent battery controller (108kW PCS)**
4. **AC output port**
5. **Rack Control Module**
6. **Audible and visual alarm, and running status display**
7. **Emergency stop switch**
8. **DC-DC module (optional for 480V)**



LUNA-241 COMMERCIAL STORAGE CABINET



Rated 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)

OVERVIEW



PCS (WITH ISOLATION TRANSFORMER)

MEGA series isolated energy storage converter is developed based on the application requirements of large C&I such as peak load shifting, battery backup, etc. It adopts full digital control technology, integrates the leading technological achievements of contemporary power electronics, and the highest efficiency of the product reaches 97.5%; Support multi-machine parallel function, can meet the power demand of 30KW~3MW.

- Safe and Reliable
- Flexible Configuration
- Intelligent and efficient



MPS (HYBRID INVERTER)

Megarevo MPS series hybrid inverters adopt an integrated design, integrating PV controllers, energy storage converters, and on/off-grid automatic switching units, greatly improving customer deployment efficiency and reducing installation costs. The PV capacity can be flexibly configured, greatly improving the microgrid system availability, and is suitable for remote areas and islands where power is relatively weak. Our microgrid inverter's strong load adaptability and complete protection function ensure power supply security and stability.

- Safe and Reliable
- Flexible Configuration
- Intelligent and efficient

CASE STUDY

PRODUCT CATALOGUE

MEGAREVO



PCS (WITH ISOLATION TRANSFORMER)

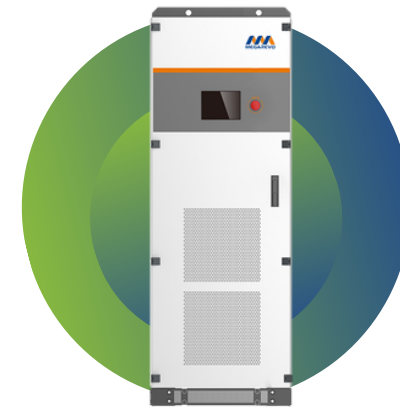
50KW



100KW



150KW



250KW



500KW



Voltage Range	320~850 V	420~850 V	420~850 V	420~850 V	500~850 V
Max. Current	178 A	270 A	405 A	673 A	1128 A
Max. Output Power (On-Grid)	55 kW	110 kW	165 kW	275 kW	550 kW
Rated Output Power (On-Grid)	50 kW	100 kW	150kW	250 kW	500 kW
Rated Current (On-Grid)	72 A	144 A	216 A	361 A	722 A
Max. Output Current (On-Grid)	80 A	159 A	238 A	397 A	794 A
Rated Frequency (On-Grid)			50/60 Hz		
Frequency Range (On-Grid)			44~55/55~65		
Rated Voltage (Off-Grid)			400 V		
Rate Frequency (Off-Grid)			50/60 Hz		
Overload Capacity (Off-Grid)			110% Long-Term		
Max Efficiency	96.5%	97.1%	97.1%	97.3%	97.5%
Ingress Protection			IP21		
Dimensions	800 x 800 x 1900mm	800 x 800 x 1900mm	800 x 800 x 1900mm	1200 x 800 x 2050mm	1600 x 1050 x 2050mm
Weight	712	936	1057	1582	2665

MEGAREVO

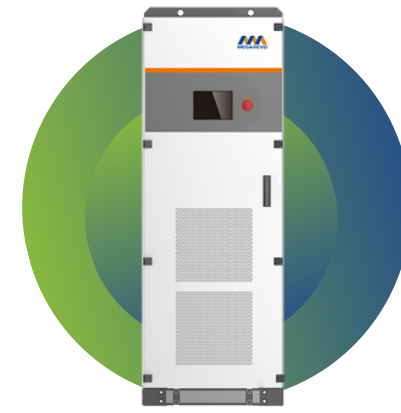


MPS (WITH ISOLATION TRANSFORMER)

50KW



100KW



150KW



250KW



500KW



Max. Output Power (On-Grid)	55 kW	110 kW	165 kW	275 kW	550 kW
Rated Output Power (On-Grid)	50 kW	100 kW	150 kW	250 kW	500 kW
Rated Voltage (On-Grid)	400 V	400 V	400 V	400 V	400 V
Voltage Range (On-Grid)	3	320~460 V	320~460 V	320~460 V	320~460 V
Rated Current (On-Grid)		144 A	216 A	361 A	722 A
Rated Frequency (On-Grid)			50/60 Hz		
Frequency Range (On-Grid)			45~55/55~65		
Power Factor (On-Grid)	55 kW		1leading~1lagging (settable)		
Max. Output Power (Off-Grid)	50 kW	110 kW	165 kW	275 kW	550 kW
Rated Power (Off-Grid)		100 kW	150 kW	250 kW	500 kW
Rated Voltage (Off-Grid)			400 V		
Rated Current (Off-Grid)	72 A	144 A	216 A	361 A	722 A
THDu (Off-Grid)			<1% Linear, or 5% Nonlinear		
Rated Frequency (Off-Grid)			50/60 Hz		
Overload Capacity (Off-Grid)			110% Long-Term, 120% 1min		
MPPT Module Quantity	1/2	2/3//4	2/3/4	5/6	10/11/12
MPPT Voltage Range			250~850		

OVERVIEW



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

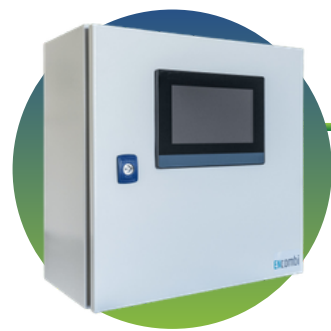
CONTAINERISED C&I ESS



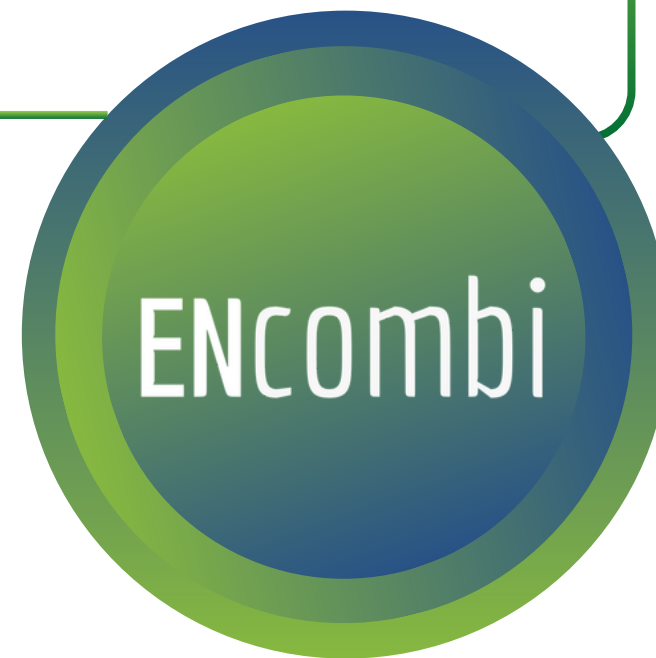
This product is designed as the movable container, with its own energy storage system, compatible with photovoltaic and utility power, widely applicable to temporary power use, island application, emergency power supply, power preservation and backup.

Capacity	1 075 kWh
Rated AC Power	500 kW
Max. Round-Trip Efficiency	90%
Dimensions	6 058 x 2 438 x 2 591mm
Cycle Life	>= 6 000
IP Rating	IP54

OVERVIEW



ECCUBE X
Controller for microgrids and BESS Control



ECCUBE 2

Controller for decentralised PV plants with or without gensets



ECCUBEH

Controller for PV and PV-Hybrid plants with on-grid Hybrid Inverters



PRODUCT CATALOGUE

ENERGY MANAGEMENT SYSTEMS

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 PVGenset. 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 is a fully integrated 261kWh energy storage system designed for flexible deployment in commercial and industrial environments. It combines PV and storage integration to reduce solar curtailment and boost energy utilization, while enabling peak shaving by storing energy when prices are low and using it during peak hours. With built-in EMS and cloud platform support, it offers real-time monitoring, remote scheduling, and intelligent fault management. The system also supports microgrid applications and emergency backup power, ensuring energy continuity in critical scenarios.



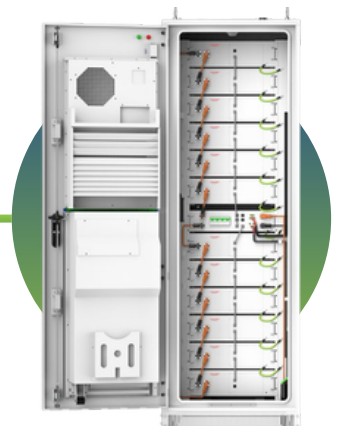
OASIS RACK PRO

The OASIS Rack Pro is a modular energy storage solution designed for seamless integration with external hybrid inverters and PV systems. Supporting DC coupling, it maximizes solar utilisation and minimises curtailment. Ideal for peak shaving and valley filling, it reduces electricity costs by shifting energy use to off-peak times. With cloud-based EMS for real-time monitoring and remote control, it enables efficient energy scheduling, microgrid applications, fast frequency response, and reliable emergency backup. Making it a smart choice for dynamic commercial and industrial energy needs.



OASIS 60

OASIS 60 is a fully integrated 60kW/215kWh energy storage system built for commercial and industrial applications. Combining a PCS, battery pack, EMS, and fire protection in one compact unit, it supports peak shaving, backup power, and renewable energy integration. With smart monitoring, modular design, and fast deployment, the OASIS 60 delivers reliable, space-efficient energy management for C&I facilities.



SUNWODA

OASIS RACK PRO

107-215kWh

DC Side Parameter

Cell Specification	3.2V 280Ah
Cell Type	LFP
PACK Specification	1P205, 64V, 17.92kWh
PACK Quantity	6-12
Rated Capacity	107.52-215.04kWh
Rated Voltage	384V - 768V
Voltage Range	336-864V
Max. Charge and Discharge Ratio	1C

System Parameter

Communication Mode	CAN, RS485, Internet, WiFi
Cooling Method	Intelligent Air Cooling
Installation Method	Indoor
Protection Degree	IP20
Operating Temperature Range	0~+55°C (>45°C Derating)
Operating Humidity Range	0~95RH, non-condensing
Dimension(WxDxH)	1160x976x2060mm
Weight	<2000kg
Certification	UN28.3, CE, IEC



SUNWODA

OASIS 60

HV 60 kWh

System Parameter

Battery Number	12pcs
Rated Voltage	614.4V
Voltage Range	537.6~691.2V
Max. C-Rated	1C
Rated Energy	60kWh
Weight	807kg
Dimensions (L x W xH)	715 x 890 x 2140mm
Expansion	Supports up to 6 battery cabinets in parallel
Protection Level	IP55
Temperature Control Method	Air-Conditioning
Ambient Temperature	-20~55°C
Recommended Storage Temperature	20~30°C
Working Humidity	10%~95% RH (without condensation)
Communication	CAN/RS485/WiFi
Warranty	5years
Max. Working Altitude	2000m
Cycle Life	6000times(25°C ,0.5C/0.5C,90%DOD, EOL60%)



SUNWODA

OASIS L261 ALL-IN-ONE



125kW/261kWh

DC Side

Cell Type	LFP
Cell Specification	3.2V 314Ah
PACK Capacity(kWh)	52.2496
Rated Capacity (kWh)	261.248
Rated Voltage	832V

AC Side (On-Grid)

Rated Output Power (kW)	125
THDi	<3% (Rated Power)
Rated Voltage(v)	400 (300~440)
Rated Frequency(Hz)	50/60Hz (+-2.5Hz)
Power Factor	-1~+1

AC Side (Off-Grid, Optional STS Module)

Rated Output Power (kW)	125
Wiring Method	3L+N
Rated Output Voltage (V)	400
Rated Output Frequency (Hz)	50/60
THDu	<3% (Linear Load)

System Parameter

Communication Interface	CAN, RS485, Internet, WiFi
Cooling Mode	Liquid Cooling
Installation Mode	Outdoor
Protection Grade	IP55
Ambient Temperature	-30~+55°C (>45°C Derating)
Ambient Humidity	5%~95%, No Condensation
Altitude	2000m
Size (W x D x H)	980 x 1390 x 2350mm
Weight	<2400kg

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