

CELL POWER

Energy Storage Systems

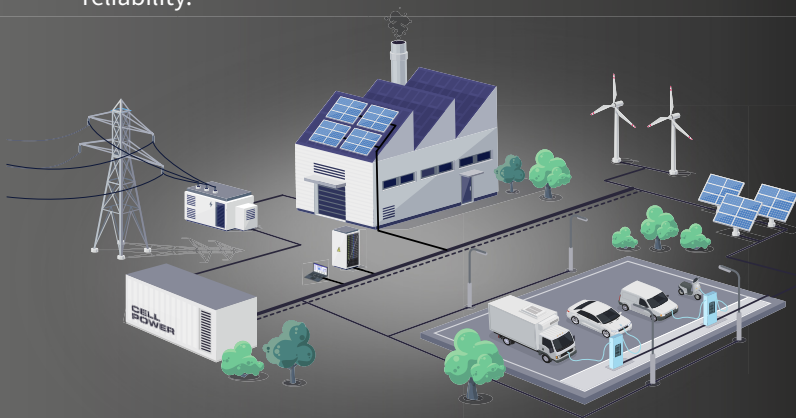
Electric vehicles that cannot charge, machines that stop during busy hours, and solar panels that produce energy with no place to send it are daily problems. As the need for electricity grows, the power grid struggles to keep up. Delays, overloads, and shutdowns are becoming part of daily operations.

Cellpower Energy Storage Systems offer a way forward. We ensure continuity, flexibility, and control. Providing reliable energy where and when it is needed most.

Applications of energy storage

Cellpower systems store energy when it is available and release it when needed. This creates a smart microgrid: a local energy system in which generation, storage, and consumption are balanced. It makes energy users less dependent on the public grid and provides greater control over energy costs and availability.

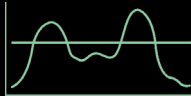
Cellpower Energy Storage Systems (CESS) can be deployed in many different situations, helping to improve energy use and reliability.





Renewable energy

Optimise the storage of solar and wind energy for a stable and sustainable power supply.



Peak shaving

Reduce grid load by storing energy and using it during peak hours.



Energy trade

Generate returns from energy by automatically purchasing at low prices and selling at high prices.



E-mobility

Smart DC charging solutions for electric mobility. Fast, efficient, and future-ready.



Boost your power

Increase your power capacity intelligently without physically upgrading the grid connection.



Use it or lose it

Use your grid capacity. Otherwise, the network operator may reduce it, and you risk losing it.

The benefits of Cellpower ESS

We engineered our Cellpower Energy Storage Systems for maximum safety, performance, and flexibility. Each system is assembled in our factory in the Netherlands and complies with international and local standards such as UL9540A and PGS 37-1. All our systems are equipped with high-quality BloombergNEF (BNEF) Tier 1 battery cells.





Highest energy density in the market

Maximum energy with minimal space.



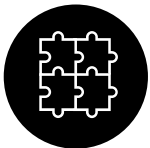
Cybersecurity and data safety

Controlled by our own software in a secure network. No external control or cloud data link outside the EU.



Developed in the Netherlands

Engineered, assembled, and tested (FAT) in factory in Haarlem. By a Dutch battery specialist with over 35 years of experience.



Plug & Charge

Simple installation. Flexible and modular design. Easily scalable as your energy needs grow.



Built to last

10 years warranty, long life, and high cycle capacity for reliable energy over time.



CESS 102 - 50



GENERAL INFORMATION

Dimensions (LxWxH)	1100 x 1460 x 2380mm
Weight	~1500kg
Housing	Outdoor cabinet
Anti corrosion level	C4
Noise level	≤75dB
Protection rating	IP54
Operating temperature	-30°C ~ +50°C
Relative humidity	5% ~ 95% (Non-condensing)
Maximum operating altitude	4000m (≥3000m derating)
Thermal management system	Intelligent air cooling
EMS integrations (multiplatform)	Envitron and more through MODBUS TCP
Communication interface	TCP IEC104, MODBUS TCP/RTU
Off-grid capability	Yes, ATS required

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosphate)
Nominal Energy	102,4 kWh
Nominal Capacity	200 Ah
Nominal Voltage	512V
Voltage range (min. - Max.)	448V ~ 565V
Cycle life @0.5C / 25°C	≥6000 cycles @90% D.o.D.; 70% EOL
DoD	90%
Fire supression system	Double (batterypack and cabinet) fire suppression system

EXAMPLE CONFIGURATIONS

2 pcs	204 kWh - 100 kW
3 pcs	306 kWh - 150 kW
4 pcs	408 kWh - 200 kW
10 pcs	2048 kWh - 1MW
x pcs in parallel maximum	20 pcs in parallel maximum

INVERTER

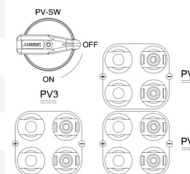
Rated / nominal AC power	50 kW
Maximum AC power	55kVA
Grid voltage	400V
Grid voltage range	340V ~ 440V
AC current	80A
THD	≤3% v (100% Load)
AC power factor	-1 (Lagging) ~ 1 (Leading)
AC frequency	50/60Hz ± 5Hz
Max efficiency	97,5%

WARRANTY & CERTIFICATE

Warranty	5 years
Certificates battery	IEC62619-2017; UN38.3; IEC61000-6-2/4
Certificates inverter	IEC62477; IEC61000; CE; GB/T; IEC62109; IEC61683; IEC60068; IEC61727; IEC62116; EN50549; VDE4105; G99

PV SIDE

Max. Input Voltage	1000V
MPPT Voltage Range	350V~800V
Max. Current per MPPT	36A
Number of MPPT	3
Number of inputs per MPPT	2



CESS 209 - 104



EXAMPLE CONFIGURATIONS

2 pcs	418 kWh - 209 kW
3 pcs	627 kWh - 313 kW
4 pcs	836 kWh - 418 kW
10 pcs	2090 kWh - 1045 kW
x pcs in parallel maximum	Unlimited expandability

GENERAL INFORMATION

Dimensions (LxWxH)	1300 x 1300 x 2374 mm
Weight	~2600kg
Housing	Outdoor cabinet
Anti corrosion level	C5
Noise level	≤75dB
Protection rating	IP55
Operating temperature	-30°C ~ +50°C
Relative humidity	20% ~ 85% (Non-condensing)
Maximum operating altitude	2000m (No derating)
Thermal management system	Liquid cooling
EMS integrations (multiplatform)	WithTheGrid, Covolt, Embion, Envi-tron and more
Communication interface	MODBUS TCP
Off-grid capability	No

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosphate)
Nominal Energy	209,00 kWh
Nominal Capacity	314 Ah
Nominal Voltage	665,6V
Voltage range (min. - Max.)	582,4V ~ 738,4V
Cycle life @0.5C / 25°C	≥7300 cycles @90% D.o.D.; 70% EOL
Cycle life @0.25C / 25°C	≥9125 cycles @90% D.o.D.; 70% EOL
DoD	100%

INVERTER

Rated / nominal AC power	104 kW
Maximum AC power	104 kW
Grid voltage	400V
Grid voltage range	340V ~ 440V
AC current	150,1A
THD	≤1,5% v (100% Load)
AC power factor	-1 (Lagging) ~ 1 (Leading)
AC frequency	50/60Hz ± 5HZ
Max efficiency	98.3%
Round Trip Efficiency (RTE)	≥92%

SAFETY

Fire suppression system	Double fire suppression system; batterypack and cabinet Aerosol.
Detection systems	Smoke, temperature, water and humidity sensors (H2 optional)
Warning systems	Sound- and indicator alarms; alarm forwarding possible (PAC)

WARRANTY & CERTIFICATE

Warranty	10 years
Certificates battery	UN38.3; IEC 62619; UL 9540A; UL 1973
Certificates inverter	CE; IEC 62477; EN 50549-2:2019; IEC 61000; VDE4110; TÖR A/B/C/D; Synergrid; CEI 0-21

CESS 261 - 125



EXAMPLE CONFIGURATIONS

2 pcs	522 kWh - 250 kW
3 pcs	783 kWh - 375 kW
4 pcs	1041 kWh - 500 kW
10 pcs	2610 kWh - 1250 kW
x pcs in parallel maximum	Unlimited expandability

GENERAL INFORMATION

Dimensions (LxWxH)	1300 x 1300 x 2374 mm
Weight	~2950kg
Housing	Outdoor cabinet
Anti corrosion level	C5
Noise level	≤75dB
Protection rating	IP55
Operating temperature	-30°C ~ +50°C
Relative humidity	20% ~ 85% (Non-condensing)
Maximum operating altitude	2000m (No derating)
Thermal management system	Liquid cooling
EMS integrations (multiplatform)	WithTheGrid, Covolt, Embion, Envi-tron and more
Communication interface	MODBUS TCP
Off-grid capability	No

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosphate)
Nominal Energy	261,25 kWh
Nominal Capacity	314 Ah
Nominal Voltage	832V
Voltage range (min. - Max.)	728V ~ 923V
Cycle life @0.5C / 25°C	≥7300 cycles @90% D.o.D.; 70% EOL
Cycle life @0.25C / 25°C	≥9125 cycles @90% D.o.D.; 70% EOL
DoD	100%

INVERTER

Rated / nominal AC power	125 kW
Maximum AC power	130 kW
Grid voltage	400V
Grid voltage range	340V ~ 440V
AC current	180,5A
THD	≤1,5% v (100% Load)
AC power factor	-1 (Lagging) ~ 1 (Leading)
AC frequency	50/60Hz ± 5HZ
Max efficiency	98.3%
Round Trip Efficiency (RTE)	≥92%

SAFETY

Fire suppression system	Double fire suppression system; batterypack and cabinet Aerosol.
Detection systems	Smoke, temperature, water and humidity sensors (H2 optional)
Warning systems	Sound- and indicator alarms; alarm forwarding possible (PAC)

WARRANTY & CERTIFICATE

Warranty	10 years
Certificates battery	UN38.3; IEC 62619; UL 9540A; UL 1973
Certificates inverter	CE; IEC 62477; EN 50549-2:2019; IEC 61000; VDE4110; TÖR A/B/C/D; Synergrid; CEI 0-21

CESS 314 - 125



EXAMPLE CONFIGURATIONS

2 pcs	628 kWh - 250 kW
3 pcs	942kWh - 375 kW
4 pcs	1256 kWh - 500 kW
10 pcs	3135 kWh - 1250 kW
x pcs in parallel maximum	Unlimited expandability

GENERAL INFORMATION

Dimensions (LxWxH)	1300 x 1300 x 2374 mm
Weight	~3300kg
Housing	Outdoor cabinet
Anti corrosion level	C5
Noise level	≤75dB
Protection rating	IP55
Operating temperature	-30°C ~ +50°C
Relative humidity	20% ~ 85% (Non-condensing)
Maximum operating altitude	2000m (No derating)
Thermal management system	Liquid cooling
EMS integrations (multiplatform)	WithTheGrid, Covolt, Embion, Envi-tron and more
Communication interface	MODBUS TCP
Off-grid capability	No

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosphate)
Nominal Energy	313,5 kWh
Nominal Capacity	314 Ah
Nominal Voltage	998,4V
Voltage range (min. - Max.)	873,6V ~ 1107,6V
Cycle life @0.5C / 25°C	≥7300 cycles @90% D.o.D.; 70% EOL
Cycle life @0.25C / 25°C	≥9125 cycles @90% D.o.D.; 70% EOL
DoD	100%

INVERTER

Rated / nominal AC power	125 kW
Maximum AC power	138 kW
Grid voltage	400V
Grid voltage range	340V ~ 440V
AC current	180,5A
THD	≤1,5% v (100% Load)
AC power factor	-1 (Lagging) ~ 1 (Leading)
AC frequency	50/60Hz ± 5HZ
Max efficiency	98.3%
Round Trip Efficiency (RTE)	≥92%

SAFETY

Fire supression system	Double fire suppression system; batterypack and cabinet Aerosol.
Detection systems	Smoke, temperature, water and humidity sensors (H2 optional)
Warning systems	Sound- and indicator alarms; alarm forwarding possible (PAC)

WARRANTY & CERTIFICATE

Warranty	10 years
Certificates battery	UN38.3; IEC 62619; UL 9540A; UL 1973
Certificates inverter	CE; IEC 62477; EN 50549-2:2019; IEC 61000; VDE4110; TÖR A/B/C/D; Synergrid; CEI 0-21

CESS 418



EXAMPLE CONFIGURATIONS

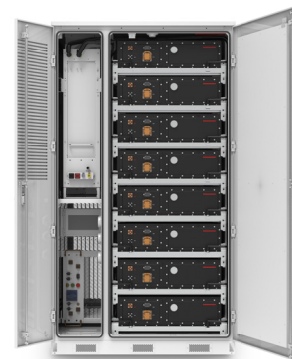
2 pcs	836 kWh
3 pcs	1254 kWh
4 pcs	1672 kWh
10 pcs	4180 kWh
x pcs in parallel maximum	6 pcs to one PCS maximum

GENERAL INFORMATION

Dimensions (LxWxH)	1300 x 1300 x 2374 mm
Weight	~3930kg
Housing	Outdoor cabinet
Anti corrosion level	C5
Noise level	≤75dB
Protection rating	IP55
Operating temperature	-30°C ~ +50°C
Relative humidity	20% ~ 85% (Non-condensing)
Maximum operating altitude	2000m (No derating)
Thermal management system	Liquid cooling
EMS integrations (multiplatform)	WithTheGrid, Covolt, Embion, Environ and more
Communication interface	CAN, MODBUS TCP
Off-grid capability	Depends on PCS

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosphate)
Nominal Energy	418 kWh
Nominal Capacity	314 Ah
Nominal Voltage	1331,2 V
Voltage range (min. - Max.)	1184,8V ~ 1476,8V
Cycle life @0.5C / 25°C	≥7300 cycles @90% D.o.D.; 70% EOL
Cycle life @0.25C / 25°C	≥9125 cycles @90% D.o.D.; 70% EOL
DoD	100%



INVERTER

Compatible with	CBI 215 - 1725
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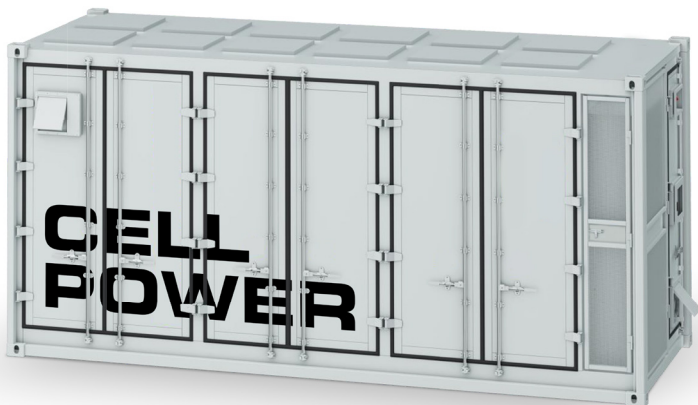
SAFETY

Fire suppression system	Double fire suppression system; battery pack and cabinet Aerosol.
Detection systems	Smoke, temperature, water and humidity sensors (H2 optional)
Warning systems	Sound- and indicator alarms; alarm forwarding possible (PAC)

WARRANTY & CERTIFICATE

Warranty	10 years
Certificates battery	UN38.3; IEC 62619; UL 9540A; UL 1973

CESS 5015



INVERTER

Compatible with CBI 215 - 1725

EXAMPLE CONFIGURATIONS

2 pcs	10 MWh
3 pcs	15 MWh
4 pcs	20 MWh
10 pcs	50 MWh
x pcs in parallel maximum	Unlimited expandability

SAFETY

Fire suppression system	Triple (batterypack, cabinet and störs coupling) fire suppression system; Aerosol
Detection systems	Gas (C3H8, CH4, H2, CO), temperature and humidity sensors
Warning systems	Sound- and indicator alarms; alarm forwarding possible (PAC)

WARRANTY & CERTIFICATE

Warranty	10 years
Certificates battery	UN38.3; IEC 62619; UL 9540A; UL 1973

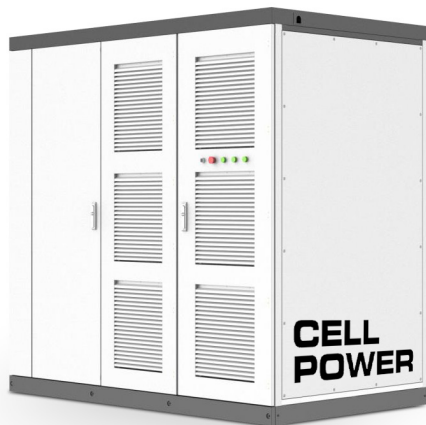
GENERAL INFORMATION

Dimensions (LxWxH)	6058 x 2438 x 2896mm
Weight	~44000kg
Housing	20ft high cube container
Anti corrosion level	C5
Noise level	≤80 dB
Protection rating	IP55
Operating temperature	-30°C ~ +55°C
Relative humidity	5% ~ 100% (Non-condensing)
Maximum operating altitude	4000m (≥2000 derating)
Thermal management system	Liquid cooling
EMS integrations (multiplatform)	WithTheGrid, Covolt, Embion, Envi-tron and more
Communication interface	CAN, MODBUS TCP
Off-grid capability	Depends on PCS

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosphate)
Nominal Energy	5015 kWh
Nominal Capacity	3768 Ah
Nominal Voltage	1331,2 V
Voltage range (min. - Max.)	1164,8 ~ 1476,8V
Cycle life @0.5C / 25°C	≥7300 cycles @90% D.o.D.; 70% EOL
Cycle life @0.25C / 25°C	≥9125 cycles @90% D.o.D.; 70% EOL
DoD	100%

CBI 215 - 1725



GENERAL INFORMATION

Dimensions (LxWxH)	2200 x 1300 x 2160mm
Weight	~ 1300 / 1400 / 1500 / 1600 / 1700 / 1800 / 1900 / 2000 kg
Housing	Outdoor cabinet
Anti corrosion level	C5
Noise level	≤75dB
Protection rating	IP55
Operating temperature	-20°C ~ +60°C (≥45°C derating)
Relative humidity	5% ~ 95% (Non-condensing)
Maximum operating altitude	3000m (≥3000m derating)
Thermal management system	Air fan cooling
EMS integrations (multiplatform)	N/A
Communication interface	TCP IEC104, MODBUS TCP/RTU, IEC61850
Off-grid capability	Yes, ATS required

BATTERY

Compatible with	CESS 418, CESS 5015
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INVERTER

Rated / nominal AC power	215 / 431 / 646 / 862 / 1078 / 1293 / 1509 / 1725 kVA
Maximum AC power	1897 kVA
Grid voltage	690V
Grid voltage range	586 ~ 759V
AC current	180 / 360 / 541 / 720 / 900 / 1082 / 1262 / 1443A
THD	≤3% i (100% Load)
AC power factor	-1 (Lagging) ~ 1 (Leading)
AC frequency	50/60Hz ± 5HZ
Max efficiency	98,5%

WARRANTY & CERTIFICATE

Warranty	3 years, 5% cost per year for further warranty extension
Certificates inverter	EN 50549-2:2019/AC:2019

EXAMPLE CONFIGURATIONS

2 pcs	3450 kW
3 pcs	5175 kW
4 pcs	6900 kW
10 pcs	17250 kW
x pcs in parallel maximum	Unlimited expandability

Support & Services

At Cellpower, we believe that a reliable energy storage solution goes beyond technology alone. That's why we offer comprehensive support and services to ensure every system continues to perform safely and efficiently throughout its lifecycle. From delivery to long-term operation, our experienced team is here to support you every step of the way.

Turn-key delivery

- Pre-assembled and pre-installed systems
- In-stock availability for fast deployment
- Plug & Charge installation

System validation

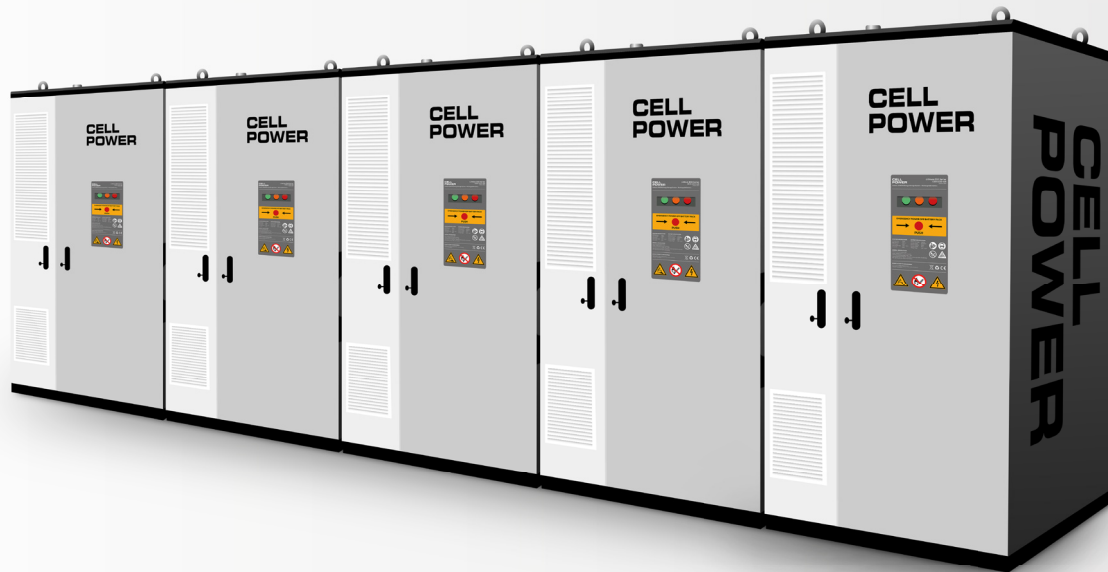
- Factory Acceptance Testing (FAT)
- Site Acceptance Testing (SAT)

On-site services

- Professional commissioning services
- Warranty handling and scheduled maintenance

Regulatory compliance

- Fully compliant with PGS 37-1 guidelines



They trust in Cellpower energy storage

Cellpower energy storage systems are successfully deployed across a wide range of sectors. Whether it concerns reducing peak loads, increasing energy security, or maximising the use of renewable generation, our customers use smart energy storage in a way that fits their operations.

“Not only do Cellpower’s batteries convince, but also the advance advice, installation and long-term support.”

Co owner of BGO expat Housing

“With this solution, we can not only keep our furnaces running smoothly, but also better control operational costs. The ability to optimize our energy consumption is essential to our business, and this technology makes that possible.”

CEO of Tommy Tomato

“We wanted a system that not only works well, but is scalable and long-lasting. Cellpower was able to provide that.”

Director of Herko Vastgoed



Scan to read our customer stories.



Curious about what Cellpower can do for your organisation or project? Would you like to learn more about energy trading or request a peak shaving calculation?

Visit our website for more information, request an advisory meeting, or feel free to get in touch with us.

CELL POWER

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*Setting the standard for reliable energy
in a changing world.*