CELL POWER

Energy Storage Systems

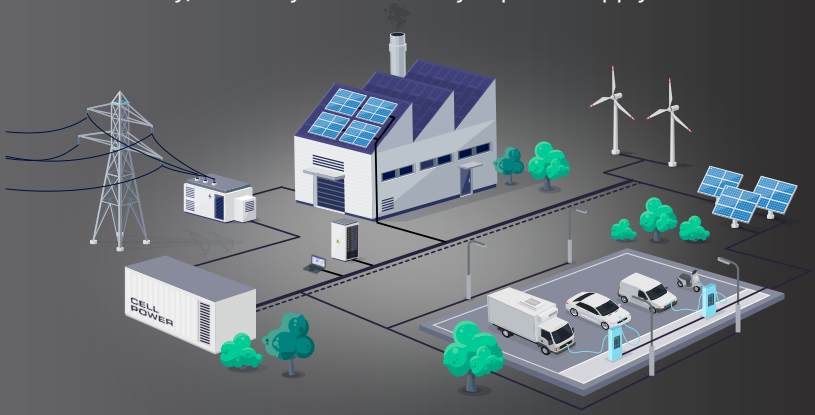
Electric vehicles that can’t charge, machines that stop during peak hours and solar energy that can’t be used. These are challenges faced every day. As the need for electricity grows, the power grid struggles to keep up. Delays, overloads and shutdowns are becoming part of daily operations.

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

Applications of energy storage

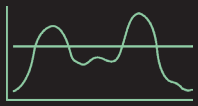
Cellpower Energy Storage Systems store energy when it is available and supply it when it is needed. This makes it possible to create a smart microgrid: a local energy system where energy generation, storage and use are well balanced.

By using a Cellpower system, energy users depend less on the public grid. They gain more control over energy availability and energy costs. Cellpower Energy Storage Systems can be used in many different applications and help improve efficiency, reliability and continuity of power supply.



Renewable energy & Self-Consumption

Store energy from solar, water and wind for later use. This increases self-consumption of renewable energy.

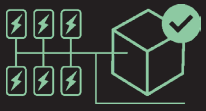


Peak shaving & Load Shifting

Store energy when demand is low and use it during peak hours to reduce grid load and peak charges. Increase your power capacity without upgrading the grid connection.

Energy trade & Arbitrage

Charge when prices are low and use or sell when prices are high, reducing costs and supporting grid balance.



E-mobility & EV-charging

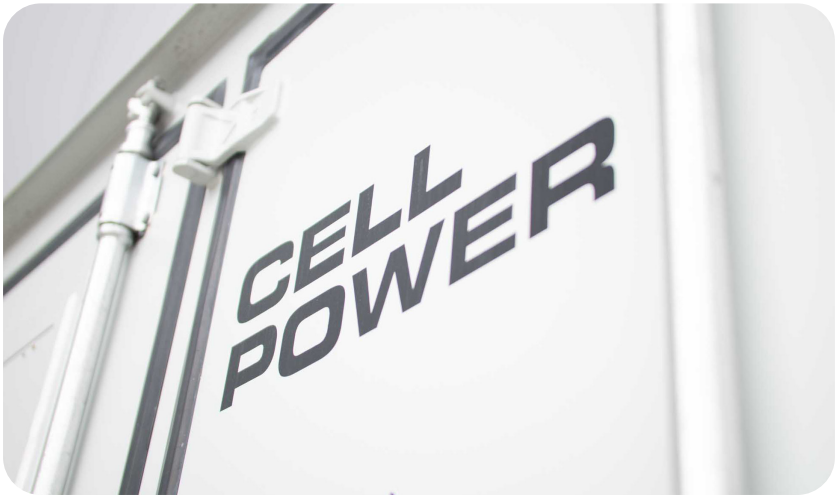
Help manage EV charging loads by supplying stored energy to charging stations, reducing peak grid impacts and enabling faster, more efficient EV charging.

Microgrid & Off-grid systems

Enable local power systems (microgrids) to operate independently or semi-independently from the main grid.

Designed and built in the Netherlands for unmatched performance

Cellpower Energy Storage Systems are engineered in the Netherlands, with a focus on maximum safety, energy density and strict European quality and data control. Each system is assembled locally and meets international and local standards, including UL9540A. We use only high-quality BloombergNEF (BNEF) Tier 1 battery cells, ensuring reliable and long-lasting performance.



Highest energy density in the market

Maximum energy with minimal space.

European quality and control

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

Highest safety level to even be placed indoors

Our systems have passed the UL9540A tests for thermal safety.

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 (multiplat-form)	Envitron and more through MOD-BUS 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
Cycle life @0.25C / 25°C	≥6000 cycles @90% D.o.D.; 70% EOL
DoD	95%
Fire supression system	Double (batterypack and cabinet) fire suppression system

INVERTER

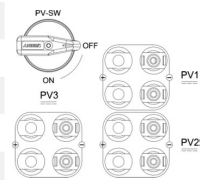
Rated / nominal AC power	50 kW
Maximum AC power	55kVA
Grid voltage	400V
Grid voltage range	340V ~ 440V
AC current	80A
THD	≤3% v (100% Load)
AC power factor	-1 (Lagging) ~ 1 (Leading)
AC frequency	50/60Hz ± 5HZ
Max efficiency	97,5%

WARRANTY & CERTIFICATE

Warranty	5 years
Certificates battery	IEC62619-2017; UN38.3; IEC61000-6-2/4; IEC 63056-2020
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



EXAMPLE CONFIGURATIONS

2 pcs	204 kWh - 100 kW
3 pcs	306 kWh - 150 kW
4 pcs	408 kWh - 200 kW
10 pcs	1020 kWh - 500 kW
x pcs in parallel maximum	20 pcs in parallel maximum

CESS 209 - 104
CESS 209 - 50

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	≤65dB at 2m
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, Envitron, Flexecharge, Eniris 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 @95% D.o.D.; 70% EOL
Cycle life @0.25C / 25°C	> 9125 cycles @95% D.o.D.; 70%EOL
DoD	95%

INVERTER	209 - 104	209 - 50
Rated / nominal AC power	104 kW	50 kW
Maximum AC power	104 kW	50 kW
Grid voltage	400V	
Grid voltage range	340V ~ 440V	
AC current	150,1A	72A
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 Aerosol and cabinet
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 61000-6-4; IEC 62477; EN 50549-1; EN 50549-2;VDE4105/4110/4120; TÖR A/B; Synergrid C10/11; CEI 0-21

CESS 261 - 125
CESS 261- 65

EXAMPLE CONFIGURATIONS

2 pcs	522 kWh - 209 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	≤65dB at 2m
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 (multiplat-form)	WithTheGrid, Covolt, Embion, Envi-tron, Flexecharge, Eniris and more
Communication interface	MODBUS TCP
Off-grid capability	No

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosp-hate)
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 @95% D.o.D.; 70% EOL
Cycle life @0.25C / 25°C	> 9125 cycles @95% D.o.D.; 70% EOL
DoD	95%

INVERTER	261 - 125	261 - 65
Rated / nominal AC power	125 kW	65 kW
Maximum AC power	130 kW	65 kW
Grid voltage	400V	
Grid voltage range	340V ~ 440V	
AC current	180,5A (130 kW = 187,5A)	94A
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 Aerosol and cabinet
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 61000-6-4; IEC 62477; EN 50549-1; EN 50549-2;VDE4105/4110/4120; TÖR A/B; Synergrid C10/11; CEI 0-21

CESS 314 - 125
CESS 314 - 75

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	≤65dB at 2m
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 (multiplat-form)	WithTheGrid, Covolt, Embion, Envi-tron, Flexecharge, Eniris and more
Communication interface	MODBUS TCP
Off-grid capability	No

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosp-hate)
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 @95% D.o.D.; 70% EOL
Cycle life @0.25C / 25°C	> 9125 cycles @95% D.o.D.; 70% EOL
DoD	95%

INVERTER

	261 - 125	261 - 65
Rated / nominal AC power	125 kW	75 kW
Maximum AC power	138 kW	75 kW
Grid voltage	400V	
Grid voltage range	340V ~ 440V	
AC current	180,5A (138 kW = 198A)	109A
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 Aerosol and cabinet
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 61000-6-4; IEC 62477; EN 50549-1; EN 50549-2;VDE4105/4110/4120; TÖR A/B; Synergrid C10/11; CEI 0-21

CESS 314-157

EXAMPLE CONFIGURATIONS

2 pcs	628 kWh - 314 kW
3 pcs	942kWh - 371 kW
4 pcs	1256 kWh - 628 kW
10 pcs	3135 kWh - 1570 kW
x pcs in parallel maximum	Unlimited expandability

GENERAL INFORMATION

Dimensions (LxWxH)	1300 x 1300 x 2374 mm
Weight	~3350kg
Housing	Outdoor cabinet
Anti corrosion level	C5
Noise level	≤75dB
Protection rating	IP55
Operating temperature	-20°C ~ +60°C
Relative humidity	0% ~ 100% (Non-condensing)
Maximum operating altitude	3000m (No derating)
Thermal management system	Liquid cooling
EMS integrations (multiplat-form)	WithTheGrid, Covolt, Embion, Envi-tron, Flexecharge, Eniris and more
Communication interface	MODBUS TCP
Off-grid capability	Yes

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosp-hate)
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 @95% D.o.D.; 70% EOL
Cycle life @0.25C / 25°C	> 9125 cycles @95% D.o.D.; 70% EOL
DoD	95%

INVERTER

Rated / nominal AC power	157kW
Maximum AC power	176kVA
Grid voltage	400V
Grid voltage range	340V ~ 460V
AC current	231A
THD	<3% 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 Aerosol and cabinet
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 (5 years PCS)
Certificates battery	UN38.3; IEC 62619; UL 9540A; UL 1973
Certificates inverter	CE; EN 62109-1; EN62109-2; EN IEC 62477-1; EN IEC 61000-6-2: EN IEC 61000-6-4: EN 50549-1; EN50549-2; EN50549-10; VDR-AR-N 4110

CESS 366 - 160
CESS 366 - 90

EXAMPLE CONFIGURATIONS

2 pcs	732 kWh - 320 kW
3 pcs	942kWh - 480 kW
4 pcs	1464 kWh - 640 kW
10 pcs	3660 kWh - 1600 kW
x pcs in parallel maximum	Unlimited expandability

GENERAL INFORMATION

Dimensions (LxWxH)	1300 x 1300 x 2374 mm
Weight	~3700kg
Housing	Outdoor cabinet
Anti corrosion level	C5
Noise level	≤75dB
Protection rating	IP55
Operating temperature	-20°C ~ +60°C
Relative humidity	0% ~ 100% (Non-condensing)
Maximum operating altitude	3000m (No derating)
Thermal management system	Liquid cooling
EMS integrations (multiplat-form)	WithTheGrid, Covolt, Embion, Envi-tron, Flexecharge, Eniris and more
Communication interface	MODBUS TCP
Off-grid capability	Yes

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosp-hate)
Nominal Energy	365,75 kWh
Nominal Capacity	314 Ah
Nominal Voltage	1164,8V
Voltage range (min. - Max.)	1019,2V ~ 1292,2V
Cycle life @0.5C / 25°C	>7300 cycles @95% D.o.D.; 70% EOL
Cycle life @0.25C / 25°C	> 9125 cycles @95% D.o.D.; 70% EOL
DoD	95%

INVERTER

	366 - 160	366 - 90
Rated / nominal AC power	160kW (1200Vdc > derating to 90% 144kW)	90 kW
Maximum AC power	176kVA discharging / 144kVA charging	90 kW
Grid voltage	400V	
Grid voltage range	340V ~ 460V	
AC current	231A	130A
THD	<3% 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 Aerosol and cabinet
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 (5 years PCS)
Certificates battery	UN38.3; IEC 62619; UL 9540A; UL 1973
Certificates inverter	CE; EN 62109-1; EN62109-2; EN IEC 62477-1; EN IEC 61000-6-2: EN IEC 61000-6-4: EN 50549-1; EN50549-2; EN50549-10; VDR-AR-N 4110

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	≤65dB at 2m
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 (multiplat-form)	WithTheGrid, Covolt, Embion, Envi-tron, Flexecharge, Eniris and more
Communication interface	CAN, MODBUS TCP/RTU
Off-grid capability	Depends on PCS

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosp-hate)
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 @95% D.o.D.; 70% EOL
Cycle life @0.25C / 25°C	> 9125 cycles @95% D.o.D.; 70% EOL
DoD	95%

INVERTER

Compatible with	CBI 215 - 1725

SAFETY

Fire supression system	Double fire suppression system; batterypack Aerosol and cabinet
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

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, Envitron, Flexecharge, Eniris and more
Communication interface	CAN, MODBUS TCP/RTU
Off-grid capability	Depends on PCS

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 supression system	Triple (batterypack, cabinet and störz 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	5 years
Certificates battery	UN38.3; IEC 62619; UL 9540A; UL 1973

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosphate)
Nominal Energy	5015 kWh
Nominal Capacity	3768 Ah
Nominal Voltage	1331,2V
Voltage range (min. - Max.)	1164,8 ~ 1476,8V
Cycle life @0.5C / 25°C	>7300 cycles @95% D.o.D.; 70% EOL
Cycle life @0.25C / 25°C	> 9125 cycles @95% D.o.D.; 70% EOL
DoD	95%

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 (multiplat-form)	N/A
Communication interface	TCP IEC104, MODBUS TCP/RTU, IEC61850
Off-grid capability	Yes, ATS required

BATTERY

Compatible with	CESS 418, CESS 5015

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

We go beyond delivering hardware. In a complex energy landscape, we provide peace of mind by supporting you from system selection and sizing through pre-commissioning, installation and ongoing service, ensuring safe, reliable and efficient operation throughout the entire lifecycle. We do this while taking care of:

Sustainability

Sustainability is part of everything we do. Our EcoVadis Gold rating reflects our strong performance in environmental management, social responsibility and transparency.

Compliance

Our “Comply and Lead” approach ensures all systems meet European certifications, local regulations and standards such as UL 9540A, delivering safe and reliable energy storage.

Local Support and Services

With our local service, remote monitoring and support, we ensure your systems operate safely, efficiently and reliably, making us your trusted battery partner across Europe.

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 advanced 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

Visiting address

Intercel Electrification B.V.
Oudeweg 89
2031 CC Haarlem

Website

intercel.eu

Contact details

storage-sales@intercel.eu
+31 (0) 88 514 99 02

The trusted battery partner in Europe.