

CELL POWER

CESS 5015

The CESS 5015 is developed for applications where flexibility and reliability are central. From grid reinforcement and peak shaving to off-grid backup and charging hub buffering. With over 9,125 cycles and a 10-year warranty, this system delivers long-lasting performance. The CESS 5015 is a DC battery system without an integrated inverter, making it highly adaptable to various energy configurations and compatible with a wide range of inverters. The CESS 5015 is developed based on 35 years of battery expertise. This results in a modular energy system with the highest energy density on the market, maximum safety, and a strong focus on cybersecurity. Thanks to local service and data management within Europe, the CESS 5015 is the scalable choice for future-oriented energy projects.

35⁺

35 Years of Expertise

Backed by over 35 years of battery experience, ensuring proven reliability and in-depth technical know-how.



Highest energy density

5,015 kWh storage capacity in a 20-foot container. Maximum energy, minimal space.



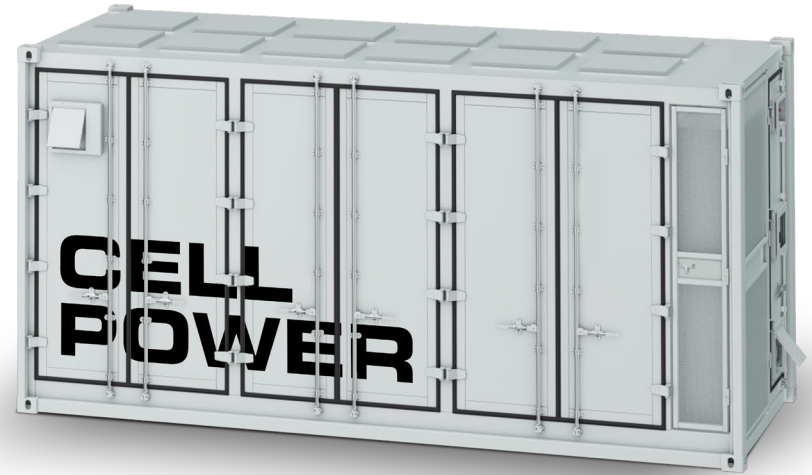
Cybersecurity & Data security

All control and data processing take place in the Netherlands. The systems are extra secure thanks to a protected network – your data remains safe.



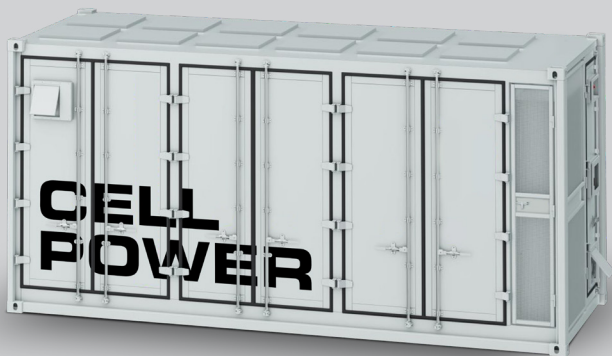
Local service and support

Focus on local services: from installation and maintenance to training – our Dutch specialists are ready to assist you.



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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

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 and more through MODBUS TCP
Communication interface	CAN, MODBUS TCP/IP
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%

INVERTER

Compatible with	CBI 215 - 1725 and other third-party industrial inverters
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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