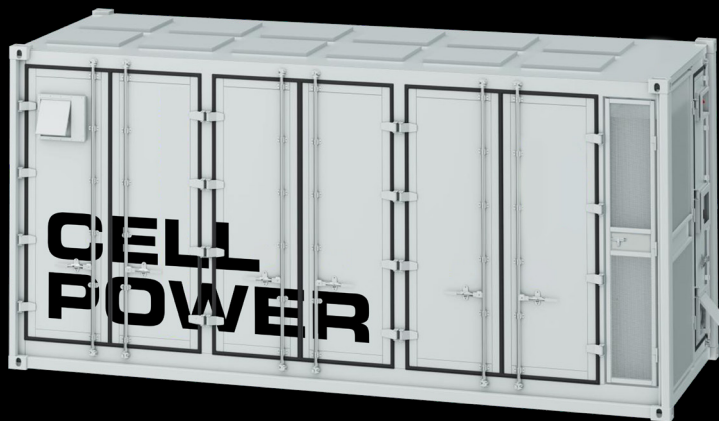


CELL POWER

CESS 5015



CESS 5015 is a product for high demanding customers. This Energy Storage System is a cutting-edge solution designed to revolutionize the way energy is stored and utilized.

With a high energy density of 5015 kWh in a 20ft high cube container, the ESS boasts a compact and space-efficient design, optimizing its footprint while ensuring maximum storage capacity. The ESS is built with Lithium Iron Phosphate (LFP) batteries, renowned for their exceptional safety and longevity. With an impressive lifespan of 8000 cycles, the batteries offer sustained reliability, making them an ideal choice for long-term energy storage needs. With the ability to seamlessly integrate additional modules, the system can be easily scaled up to meet growing energy storage requirements, making it an ideal choice for both current and future needs.

Safety is a paramount topic, the ESS addresses this with a fire suppression system, extensive certification and the use of one of the safest battery technologies: LFP. This system significantly reduces the risk of fire by actively monitoring and suppressing any potential hazards, providing added peace of mind and safeguarding the integrity of the stored energy. Maintenance of the ESS is made easy with its accessible design, allowing for convenient and safe inspection, servicing, and troubleshooting.



Superior Quality

Highly compact cabinets and containers with LFP technology offer superior energy density. Long-life: ≥ 8000 cycles and 15 years expectancy (70% EOL).



Extensive Experience

Over 35 years of battery knowledge and 10+ years of experience with lithium technology. Expert in manufacturing custom-made energy storage systems.



Turnkey systems

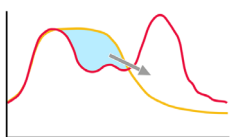
We deliver our systems plug-and-play. This means pre-assembling, pre-testing, and full integration of all the components in the Netherlands. <1 day installation time.



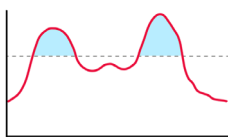
Robust safety

Ultimate protection due to superior thermal stability, dual fire protection safeguards (battery pack and cabinet). PGS 37-1 compliant.

Possible applications



**SELF-CONSUMPTION
OPTIMISATION**



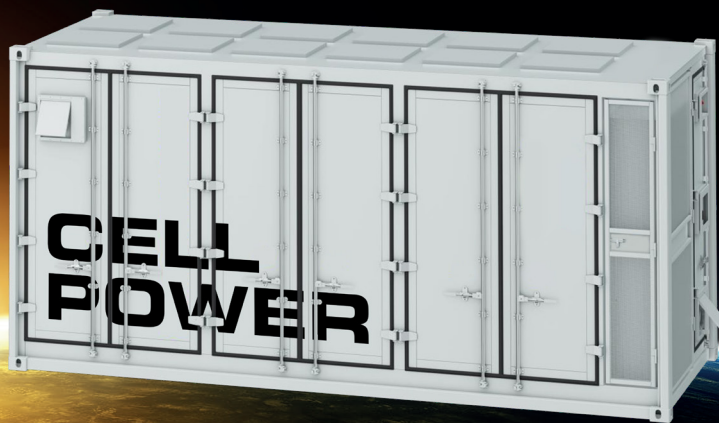
PEAK-SHAVING



TRADING

CELL POWER

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% ~ 95% (Non-condensing)
Maximum operating altitude	4000m (>2000 derating)
Thermal management system	Liquid cooling
EMS functionality	Depends on EMS
Communication interface	CAN, MODBUS TCP/RTU
Off-grid capability	Depends on PCS

BATTERY

Battery technology	LFP (LiFePO4/ Lithium Iron Phosphate)
Nominal Energy	5015 kWh
Nominal Capacity	3768 Ah
Nominal Voltage	1331,2V
Voltage range (min. - Max.)	1164,8 ~ 1476,8V
Cycle life @0.5C / 25°C	≥6000 cycles @70% EOL
DoD	90%

SAFETY

Fire suppression system	Double (batterypack and cabinet) fire suppression system
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INVERTER

Compatible with CBI 215-1725



WARRANTY & CERTIFICATES

Warranty	5 years
Certificates battery	UN38.3; IEC 62619; UL 9540A
Certificates inverter	n.v.t.

EXAMPLE CONFIGURATIONS

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