

CELL POWER

CESS 418

The CESS 418 is developed for applications where flexibility and reliability are key. From grid reinforcement and peak shaving to off-grid backup and charging hub buffering. With more than 9,125 cycles and a 10-year warranty, this system delivers long-lasting performance. The CESS 418 is a DC battery system without an integrated inverter, making it highly adaptable within various energy configurations and easy to pair with the appropriate inverter for each application. The CESS 418 is developed in the Netherlands, backed by 35 years of battery expertise. The result is a modular energy system with high energy density, maximum safety, and a strong focus on cybersecurity. With local service and data management within Europe, the CESS 418 is the scalable choice for future-oriented energy projects.

35⁺

Developed in the Netherlands

Developed by a Dutch battery specialist with over 35 years of experience. Reliable, innovative, and close to home.



High energy density

418 kWh storage capacity in a compact unit measuring only 1.3 by 1.3 meters. 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.



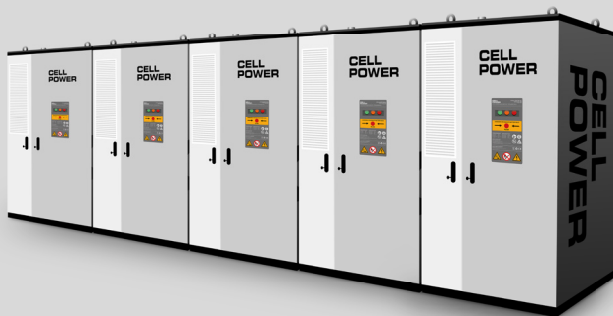
Local service and support

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	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/RTU
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 and other third-party industrial inverters
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SAFETY

Fire suppression 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