

CELL POWER

CESS 314-125

The CESS 314-125 is developed for applications where flexibility and reliability are key. From grid reinforcement and peak shaving to charging hub buffering and energy trading. With over 9,125 cycles and a 10-year warranty, this system delivers long-lasting performance. The CESS 314-125 is developed in the Netherlands, based on 35 years of battery expertise. This results in a modular energy system with a high energy density, maximum safety, and a strong focus on cybersecurity. Thanks to local service and data management within Europe, the CESS 314-125 is the scalable solution for future-oriented energy projects.



European quality and control

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



Highest energy density in the market

Maximum energy with minimal space.



Highest safety level to even be Placed indoors

Our systems have passed the strict UL9540A test for thermal safety.



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	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 (multiplatform)	WithTheGrid, Covolt, Embion, Environ, Flexecharge, Eniris 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 @95% D.o.D.; 70% EOL
DoD	95%

INVERTER

Rated / nominal AC power	125 kW
Maximum AC power	138 kVA
Grid voltage	400V
Grid voltage range	340V ~ 440V
AC current	180,5A (138 kW = 198A)
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

WARRENTY & CERTIFICATE

Warrenty	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; G99; CEI 0-21