

CELL POWER

CESS 314-157

The CESS 314-157 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 314-157 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 314-157 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 - 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	≤65dB at 2m
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 (multiplatform)	WithTheGrid, Covolt, Embion, Environ, Flexecharge, Eniris and more
Communication interface	MODBUS TCP
Off-grid capability	Yes

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	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

WARRENTY & 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