

# CELL POWER

**CESS 3440**



**CESS 3440 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 3440 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 6000 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:  $\geq 6000$  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**

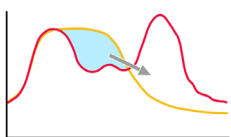
We deliver our systems plug-and-play. This means pre-assembling, pre-testing, and full integration of all the components in the Netherlands. <1 day installation time.



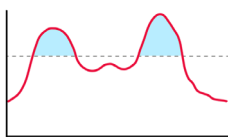
## **Robust safety**

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

## **Possible applications**



**SELF-CONSUMPTION  
OPTIMISATION**



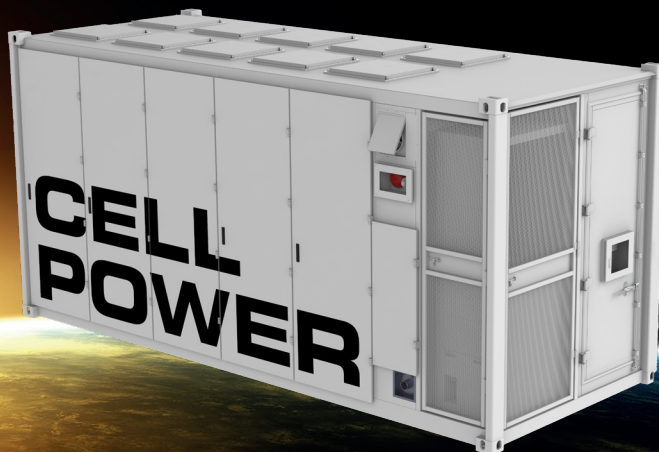
**PEAK-SHAVING**



**TRADING**

# CELL POWER

**CESS 3440**



## GENERAL INFORMATION

Dimensions (LxWxH)	6058 x 2438 x 2896mm
Weight	~37000kg
Housing	20ft high cube container
Anti corrosion level	C5
Noise level	≤80 dB
Protection rating	IP55
Operating temperature	-20°C ~ +50°C
Relative humidity	5% ~ 95% (Non-condensing)
Maximum operating altitude	2000m (No 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	3440 kWh
Nominal Capacity	2800 Ah
Nominal Voltage	1228,8V
Voltage range (min. - Max.)	1075,2 ~ 1363,2V
Cycle life @0.5C / 25°C	≥6000 cycles @70% EOL
DoD	90%

## SAFETY

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

## 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	6880 kWh
3 pcs	10320 kWh
4 pcs	13760 kWh
x pcs in parallel maximum	34400 kWh
	Unlimited expandability