

CELL POWER

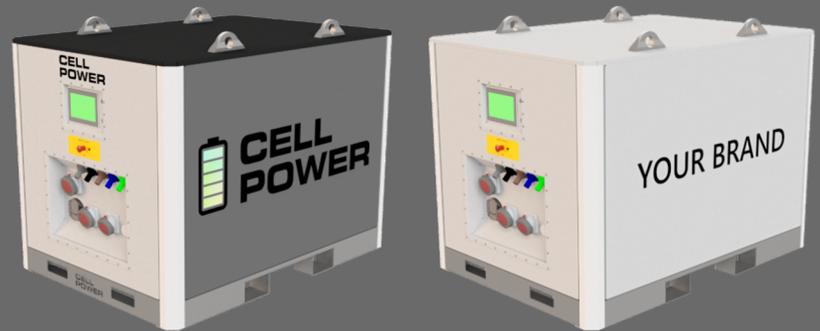
CMESS 156 - 125

Cellpower Mobile Energy Storage System

🔋 156 kWh | ⚡ 75 kW AC power | 🏠 Mobile Plug & Play ESS

Features

- High-safety LiFePO₄ battery chemistry
- PGS 37-1 compliant (Dutch guideline for safe energy storage)
- Integrated aerosol fire suppression system (module & system level)
- UPS functionality (uninterruptible power supply)
- Off-grid capability (autonomous operation without grid connection)
- Ergonomic HMI interface, plug and play control
- Optional CMESS trailer (156 kWh, <2500 kg, suitable for EV towing)
- CCS2 fast-charging compatible
- Parallel functionality (connect up to six CMESS for more capacity)
- Advanced digital safety (integrated Cellpower BMS & EMS)



Battery & Inverter specification (at 25°C)

Battery Chemistry	LFP
Nominal battery energy	156 kWh
Nominal battery voltage	664V
Max continue discharge rate	0,6 C
Cycle life	7300 cycles of life @0,5C/ 25C @90% D.O.D.
Thermal management	Active thermal management liquid cooling/heating
Inverter offgrid rated output power	75 kW
Max inverter output current	114 A
Inverter efficiency	97%

Mechanical characteristics

Container material	Steel (S235)
Container color	Changes to color can be made upon request
Container material protection	Galvanised frame & coated panels
Weather protection	IP 55
Container length	Approx. 2150 mm
Container width	Approx. 1550 mm
Container height	Approx. 1550 mm
Total weight	Approx. 2000 kg excl. trailer
Handling	Four lifting points, forklift adapters
Nominal noise level within 1 meter	66 dB

Connectors

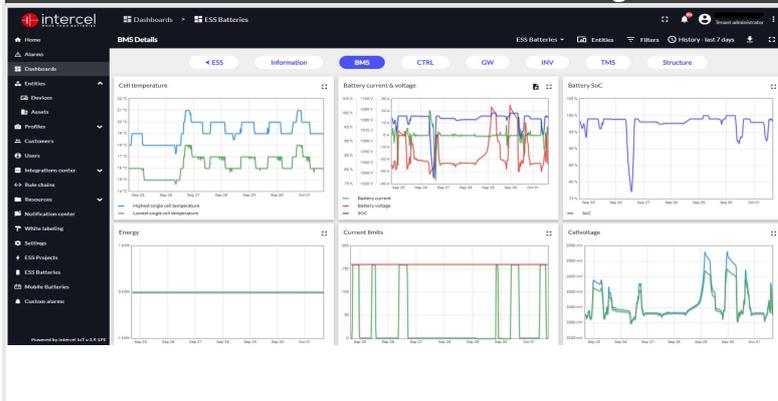
Input	CEE 125A
Input	AC powerlock for genset
Input	CCS2 DC fast charging
Input	Type 2 AC charging
Output	CEE 125 A
Output	CEE 64 A
Output	230 V

Changes to connectors can be made upon request.

Operation & storage conditions

Discharge temperature	-20 - 50°C
Charge temperature	-20 - 50°C
Operation Humidity	0 ~ 100%
Maximum Altitude	3000 m
Self-discharge rate at 25°C	≤2%/month; ≤12%/year
Storage Humidity	0 ~ 100%
Storage Temperature	≤1 month: -20 ~ 45°C ≥1 month: 0 ~ 35°C

Low maintenance & remote monitoring



Safety & sustainability

- PGS 37-1 compliant
- Production according to ISO 9001
- High quality electronics from EU
- Vibration and shock resistant (industrial mobile machine design philosophy)
- Cell from Tier 1 automotive manufacturer
- Safe, durable, cobalt free, Lithium Iron Phosphate cell chemistry
- Isolation fault detection, fuses and temperature sensors
- BMS compliant with directives 2004/108/EC, 2006/95/EC, 2006/42/EC
- Battery system built to comply with IEC62619 and UN38.3
- Aerosol fire suppression system on mobile & system level

Applications

- Heavy-duty equipment support
- Construction sites / temporary power supply
- Events & festivals
- Microgrids & off-grid systems
- Grid support & peak shaving