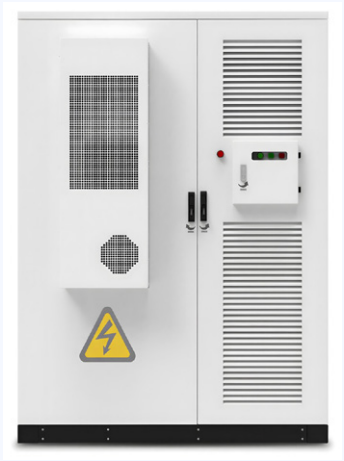
E-CIESS125KW241KWH

EURONET C&I BESS – 125kW 241kWh

Battery Energy Storage System | LFP | IP54



RATED ENERGY **241 kWh**	RATED POWER **125 kW**
RATED BATTERY VOLTAGE **768 V**	SYSTEM EFFICIENCY **≥88%**
PROTECTION **IP54**	WORKING TEMPERATURE **-20~55°C**

OVERVIEW

The EURONET E-CIESS125KW241KWH is a cabinet-style, all-in-one industrial and commercial energy storage system integrating a Power Conversion System (PCS), DC/DC converter, Static Transfer Switch (STS), lithium iron phosphate battery pack, temperature control, local monitoring and an integrated aerosol fire suppression system in a single IP54-rated enclosure. With 241kWh of battery energy and PCS output up to 125kW, it supports grid-connected, off-grid and hybrid switching modes with black-start capability, achieving ≥88% overall efficiency across -20°C to 55°C conditions.

KEY FEATURES

All-in-One Cabinet
PCS, DC/DC, STS, LFP battery, air-conditioning and EMS in one IP54 cabinet with corrosion grade C4

241kWh LFP Battery Cluster
15 × 16.076kWh packs of 3.2V / 314Ah cells, 768V rated, 1P240S configuration with forced-air cooling

125kW PCS Output
125kW rated and 137kW max. power at 400V AC, with 110% overload capacity and 98.20% efficiency

Grid, Off-Grid & Hybrid Modes
300kW STS switches in ≤10ms between grid-connected, off-grid and hybrid modes, with black-start capability

Integrated Fire Suppression
Gas aerosol fire extinguishing system with smoke and temperature detectors built into the cabinet

Smart EMS Monitoring
Real-time and historical data, automatic charge/discharge control, remote access via Modbus & cloud platform

TECHNICAL NOTE

241kWh LFP battery cluster (768V, 1P240S, 15 × 16.076kWh packs) with 125kW PCS (137kW max., 400V AC), 300kW STS (≤10ms switching) and 60kW DC/DC (PV 200–600V) in one IP54 cabinet with air-conditioning and aerosol fire suppression. Corrosion grade C4, 1800 × 1366 × 2319mm, 3.3T. Working temperature -20~55°C, altitude <3000m.

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E-CIESS125KW241KWH

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
BATTERY PARAMETERS	
Cluster Energy	241 kWh
Battery Type / V·Ah	LFP 3.2/314
Module Energy	16.076 kWh
Rated Voltage	768 V
Voltage Range	672–864 V
Configuration	1P240S
Charge / Discharge	≤0.5P
Cooling Mode	Air-cooled
PHOTOVOLTAIC	
Max. PV Power	50 × 4 kW
Max. PV Voltage	600 V
MPPT Range	200–600 V
EXCHANGE (AC)	
Power	125 kW
Transformer	125 kVA
AC Voltage	230/400 V
Voltage Range	-20%~15%
Frequency	50/60 Hz
Power Factor	0.99
Off-grid	Auto / manual
GENERAL	
System Efficiency	≥88%
Working Temp.	-20~55°C
Working Humidity	5~95% R.H.
Altitude	<3000 m
IP Grade	IP54
Corrosion Grade	C4
Size (W × D × H)	1800 × 1366 × 2319 mm
Weight	3.3 T
Fire Suppression	Integrated aerosol
Communication	ETH
CELL	
Cell Type	LFP
Nom. V / Capacity	3.2V / 314Ah
Voltage Range	2.8–3.6V
Size (T × W × H)	71.7 × 174.6 × 207 mm
Weight	5.70 ±0.3 kg
Charge Ratio	0.5P
Impedance	≤0.2 mOhm
BATTERY PACK	
Nominal Capacity	16.076 kWh
Nominal Voltage	51.2 V
Compound Mode	1P16S
BMU Quantity	1
Size (W × D × H)	450 × 750 × 231 mm
Weight	115 kg
Cooling	Forced air
Terminals	Lock copper plate

PARAMETER	SPECIFICATIONS
HIGH-VOLTAGE COMPARTMENT	
Rated Voltage	DC1000V
Rated Current	157A
Max. Current	170A
SOC Accuracy	<5%
Protection	IP20
Size (W × D × H)	390 × 680 × 178 mm
Weight	16 kg
Terminals	Plug-in
STS MODULE	
Power Rating	300 kW
Max. Power	330 kW
Switching Period	≤10 ms
Rated Voltage	400 V
Protection	IP20
Efficiency	>99%
Weight	30 kg
Size	483 × 660 × 150 mm
PCS	
Power Rating	125 kW
Max. Power	137 kW
Rated Voltage	400 V
Rated AC Current	180A
Max. DC Current	200A
Efficiency	98.20%
Overload	110%
Working Temp.	-25~60°C
DC/DC	
Power Rating	60 kW
High Side Voltage	250–900V
Low Side Voltage	200–600V
Max. Current (H / L)	110A / 160A
Efficiency	98.80%
Communication	CAN / RS485
Weight	35 kg
Size	566 × 600 × 150 mm
AIR-CONDITIONING	
Rated Voltage	AC220V ±15%
Cooling Capacity	3 kW
Max. Current	12A
Noise	70 dB
Protection	IPX5
Size (W × D × H)	500 × 250 × 1300 mm
Weight	62 kg
Refrigerant	R134A
EMS / MONITORING	
Monitoring	Real-time monitoring & historical data logging
Control	Automatic charge/discharge control & logic protection
Remote Access	Modbus & cloud platform
Data Acquisition	RS485 / CAN / DIDO, wireless / LAN forwarding
Working Temp.	-25~60°C

**Specifications are subject to change without prior notice.*

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