

# zeroCO<sub>2</sub> - BESS 125K

## Rack with BMS and storage batteries

### Solution:

zeroCO<sub>2</sub> - BESS 125K is an energy storage system based on high voltage Li-ion (LFP) lithium batteries, to be combined with the zeroCO<sub>2</sub> - XL System.

Each rack can hold up to 26 Pylontech model H32148-C battery modules, for a nominal storage capacity of 125 kWh.

The battery modules are connected in series inside the rack and managed by a BMS controller which monitors their state of charge and safety.

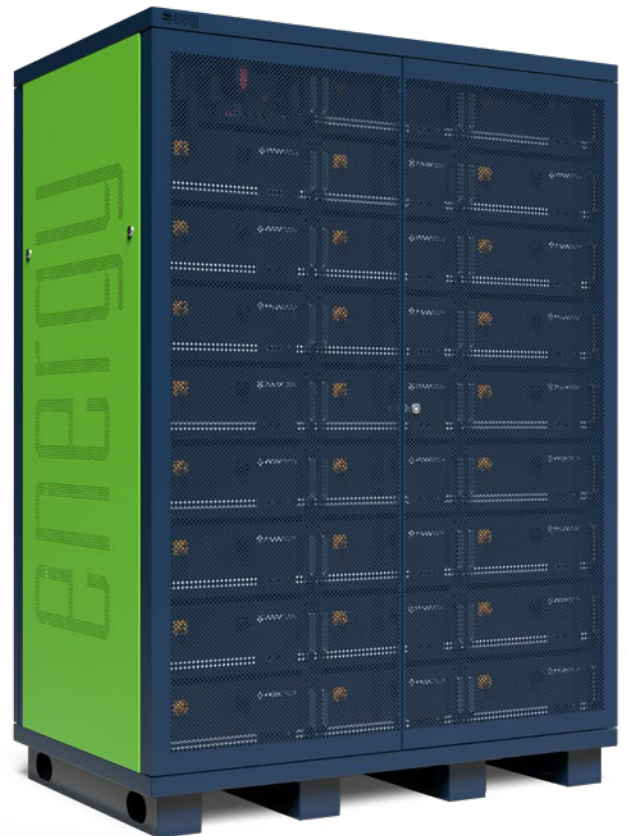
- Battery technology: high voltage Li-ion (LFP);
- Nominal storage capacity of 125 kWh;
- Integrated BMS controller for battery string management;
- Integrated DC protection;
- DC circuit breaker switch included;
- UN 38.3 certification for the transport of lithium batteries;
- Possibility of parallelization of several racks to increase the storage capacity;



SC1000-200J-C



H32148-C



zeroCO<sub>2</sub> - BESS 125K

### Rack Dimensions:

Width: 1200 mm

Height: 1683 mm

Depth: 776 mm



SAVE YOUR PLANET

[www.energyspa.com](http://www.energyspa.com)

# zeroCO<sub>2</sub> - BESS 125K

MODEL		zeroCO <sub>2</sub> - BESS 125K
Order Code		90110030
Dimensions [WxHxD, mm]		1200 x 1683 x 776
Weight [kg]		1500
Cell technology		Li-ion (LFP)
Battery module model		H32148-C
BMS Controller Name		SC1000-200J-C
Charge / discharge test current [A] (4)		29.6
Rated charge/discharge current [A]		74
Max charge/discharge current [A]		148
Rated module voltage [V]		32
Nominal module capacity [kWh/Ah]		4.74 / 148
Efficiency [%]		95
<b>DC parameters</b>		
System rated voltage [V]		832
System charge/discharge voltage range [V]		754 ~ 936
Nominal capacity [kWh/Ah]		123 / 148
DOD discharge depth [%]		90% (8 - 98% SOC)
Usable capacity [kWh/Ah]		111 / 133
Battery modules quantity [n]		24 ~ 26
<b>Communication</b>		
Communication interfaces		CAN, LAN, Modbus RTU, TCP/IP
<b>Ambient conditions</b>		
Working temperature range [°C]		0 ~ 50
Working humidity range [RH%]		0 ~ 95 (without condensation)
Storage temperature range [°C]		-20 ~ 60
Storage humidity range [RH%]		0 ~ 95 (without condensation)
Cooling		Natural cooling
Altitude [m]		<3000
<b>Safety</b>		
IP protection rating		IP20
Operational life [years]		15+
Dangerous goods transport certificate		UN38.3

(\*) Current value used to determine the capacity of the battery during test.

## Energy S.p.A.

Registered office:  
Piazza Manifattura, 1  
38068, Rovereto TN  
Tel. +39 0464 350812 - Fax +39 0464 350512



www.energysynt.com  
www.bandoaccumulo.com

## Energy S.p.A.

Operations/Warehouse:  
Via Zona Industriale, 10  
35020, Sant'Angelo di Piove di Sacco (PD)  
info@energysynt.com  
Tel. +39 049 2701296 - Fax +39 049 8599098