





+ Cell LC01

Chemistry Nominal Capacity 50 Ah Nominal Energy 3.2 V DC 12 x 194 x 218 mm Nominal Voltage Dimension (T x W x L)

0.95 kg



+ Kombi Module for LiSTORAGE

100 and 200 Ah * 5.2 kWh * Nominal Energy 51.2 and 25.6 V DC * 478.75 x 198 x 274 mm* Nominal Voltage Dimension (L x W x H)

~ 35 kg* Weight



+ LiSTORAGE 10.2

2x Kombi Module Module Type 100 and 200 Ah * Nominal Capacity up to 10.2 kWh * Nominal Energy 102.4 and 51.2 V DC * 540 x 707 x 202 mm* Nominal Voltage Dimension (L x W x H) Weight



+ LiRACK LiR10

Rack Type Nominal Capacity Nominal Energy Nominal Voltage Dimension (L x W x H)

Weight

LiR10 from 100 up to 2000 Ah * up to 102,4 kWh * 1024 and 512 V DC 600 x 800 x 2400 m ~ 1000 kg*



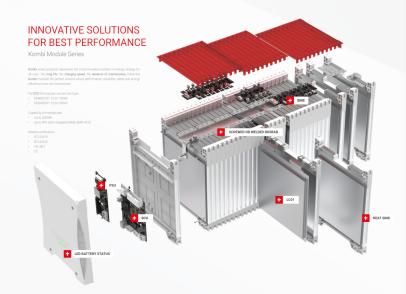
+ LiBESS LiB20 / LiB40

DC Technical Characteristics

Cabinet Type Nominal Energy Nominal Voltage Dimension

LiRack LiC40 up to 4,3 MWh * 512 and 1024 V DC 20 up to 40 ft *





FAAM LC01 CELL

The First Italian Lithium Cell



LC01 / 50Ah		
Battery Chemistery		LFP
Nominal Capacity	Ah	50
Capacity Usable (DoD 80%)	Ah	40
Nominal Energy	kWh	160
Energy Usable (DoD 80%)	kWh	128
Nominal Voltage	V DC	3,2
Minimum Voltage (Cut-off)	V	2,5
Maximum Voltage	V	3,65
Nominal Current in Discharge	A	50
Maximum Continuous Current in Discharge (25°C)	A	100
Peak Current in Discharge (10s)	A	150
Nominal Current in Charge	A	12,5
Maximum Continuous Current in Charge (25°C)	A	50
Nominal Power in Discharge	W	160
Maximum Continuous Power in Discharge (25°C)	W	320
Peak Power in Discharge (10s)	W	480
Nominal Power in Charge	W	40
Maximum Continuous Power in Charge (25°C)	W	160
ACIR	mΩ max	2,0
AC IR	mΩ max	3,0
Efficency (25°C)	%	98
Estimated Life	> year	10
Estimated Life in Cycles (25°C, DoD 80%)	>	4000
Functioning Temperature in Discharge	°C	-20 / +55
Functioning Temperature in charge	°C	0 / +45
Optimal Functioning Temperature	°C	23±3
Storage Temperature	°C	23±3
Self Discharge	%month	2
Operating Condition for Humidity		0÷60
Thickness	P mm	12.65 ±
Width	mm	194.1 ± 1
Length	mm	219.5 ± 1
Weight	Ka	0.95
Energy density - Volumetric	Wh/l	
Energy density - Gravimetric	Wh/Kg	
chergy density - Gravimetric	WII/Kg	107



LiRACK

Cabinet Standard Rack 19"



LiR houses our racks LiStorage 10.2., thanks to an evolved system of plug & play connections.

With LiR you'll have the flexibility to configure your own system as desired.

The maximum slots available for LIR are 10. Smaller sizes allow you to storage fewer racks and the space inside ensures that a control module for the entire string is also housed.

You can configure each LiR10 up to a maximum of 10S or 10P. The string is controlled through the FAAM head-module and can be set and monitored in real time through an HMI installed on the front cabinet, or even remotely whenever and wherever you prefer.

the ESS system is designed. In POWER configurations to reach a maximum current of 40 0A at a normal working voltage up to 1024VDC.

In the parallel configuration each LIStorage 10.2 is independent with its own slave BMS, which controls the opening of a contactor, protected by a fuse. This makes the system safe and easy to be armed and maintained.

The Head-module guarantees the necessary protections in the series configuration, inside two contactors and fuse, which LiStorage 10.2 are in any case protected by a fuse sized for the working voltage.



FROM THE RACK TO THE TURNKEY SOLUTIONS



ENERGY			POWER	
LiR-E Up to 1024V DC / Up t	o 2000Ah (1C)	LiR-P Up to 1024V DC	C / Up to 2000Ah (2C)	
LiStorage 10.2 E-100V	LiStorage 10.2 E-48V	LiStorage 10.2 P-100V	LiStorage 10.2 P-48V	
FOR ALL APPLICATION				
RE/Power Integration	Grid Support	Grid Support Commercial & Indu		
Mini Grids	Off-Grid Indu	Off-Grid Industrial Re-Charge		

