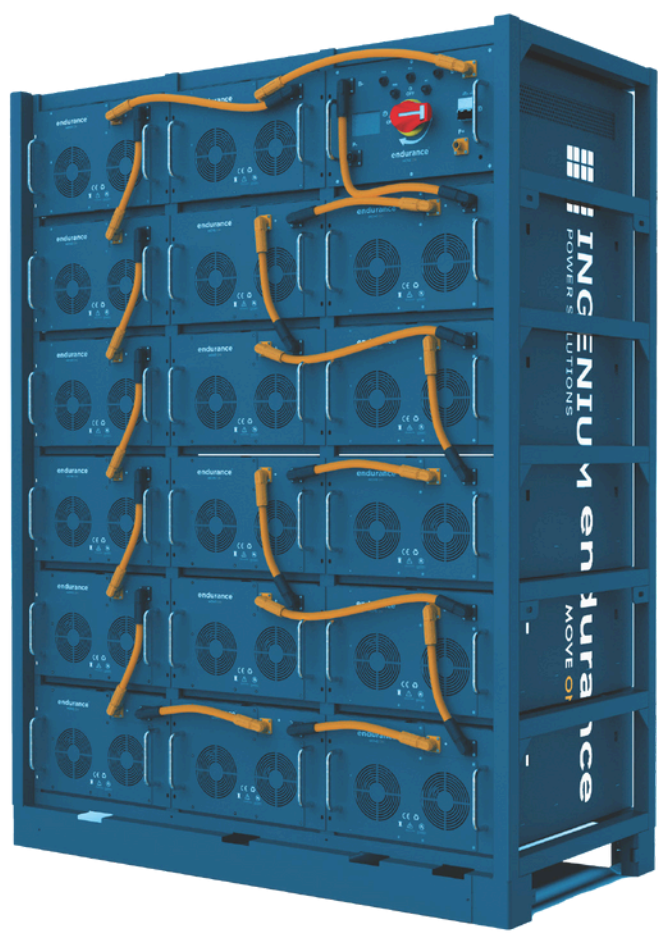


Maximize your energy savings with our innovative solution.

By developing cutting-edge technological solutions, our BESS is designed to optimize the energy efficiency of your system. Equipped with a sophisticated energy management system, our product ensures exceptional battery life and unprecedented energy performance. Invest in the future of energy with our innovative solution.

The ST 180 KWh energy storage system, is the ideal solution to meet the most demanding energy needs of the commercial and industrial sectors.

With the ST 180 KWh system, companies can reduce energy costs, increase their energy autonomy, and contribute to the transition towards a more sustainable energy market.



Applications

Industrial Applications

Support for critical production processes, internal grid stabilization, and energy backup in case of outages.

Commercial Applications

Optimization of self-consumption from photovoltaic systems, reduction of energy costs, and improvement of building energy efficiency.

Agricultural and Agrivoltaic Sector

Maximizes self-consumption of energy produced from renewable sources, efficiently managing loads such as irrigation systems, optimizing water and energy consumption. It also helps stabilize the electrical grid, preventing voltage fluctuations.

Exploitation of Off-Peak Tariffs

BESS can store electricity during the night or in periods of low demand, when tariffs are lower, and then use it during peak hours, thus reducing overall energy costs.

Self-consumption of Produced Energy

In the case of photovoltaic systems, BESS allows excess energy produced during the day to be stored for use at night or when production is lower than consumption, maximizing self-consumption and reducing dependency on the grid.

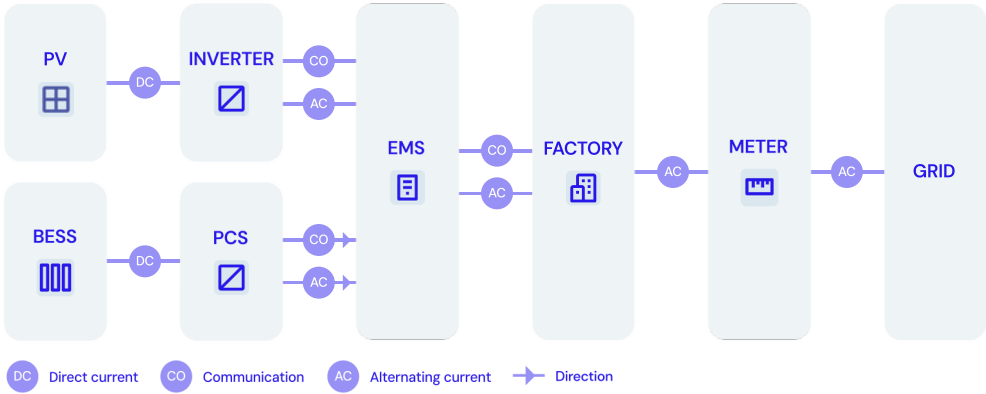
Load Optimization

BESS enables the optimization of electrical loads by shifting energy consumption to periods when energy is cheaper or available from renewable sources, thereby increasing the profitability of your system.

Grid Stabilization

BESS can be used to stabilize the electrical grid by absorbing or supplying energy based on demand fluctuations, helping to reduce the risk of blackouts.

How it works



Characteristics

Technology	LFP
Configuration	17*2P16S

DC side

Max DC voltage	979,2V
Nominal DC voltage	870,4V
Min DC voltage	734,4V
DC voltage range	734,4V-979,2V
Max DC current	210A

Efficiency

Max efficiency	99 %
European efficiency	98,50%

Protection

DC input protection (Fuse)	400A
Load Break Switch	250A
Surge protection	T1 + T2
Visual monitoring	Yes
Overheat protection	BMS Controller

Characteristics

Dimensions (W x H x D)	1442 x 1861 x 674 mm
Standard charge and discharge	1C
Sound emission (dBA)	MAX 55
Weight	1625 Kg
Operating temperature (°C)	Charge between 0°C & 55°C Discharge between -20°C & 55°C
Allowable relative humidity range	0% - 90%
Cooling method	Forced air cooling
Max operating altitude (m)	4000
Derating operative altutude (m)	2000
Display	PDMU + External Display + Remote Monitoring
Communication	CAN BUS / MOD BUS
Compliance	CE / UN38.3 **

Warranty

Cycles	5000 ***
Years	5 ***

Compliance and Regulations

Electromagnetic Compability (EMC) 2014/30/EU	UNE-EN 62919:2022
Low Voltage Directive 2014/35/EU	IEC 62620:2015
RoHS Directive 2011/65/EU	EN 61000-6-3:2021
Product safety device 2001/95/CE	UN 38.3
Regulation UE 2023/1542	

* Parallel batteries up to 16 Racks. ** In progress.

***This product is subject to specific warranty conditions. Please refer to the terms and conditions for detailed information on the applicable warranty.