

TAB

Li-Ion batteries

e.storage C183 ESS – Indoor version specification



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1 C183 ESS Indoor version

The C183 ESS indoor version is formed by the following main components.

1.1 Battery module: e.module H10.2

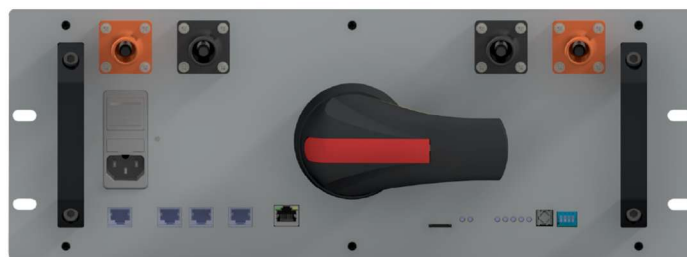
The battery module TAB e.module H10.2 is the basic component that consists of a group of battery cells arranged and connected to form a single, manageable unit. The C183 ESS is formed by strings of 18 modules connected in series.



For more information, refer to the C183 ESS User Manual.

1.2 Control module: e.module S920

The control module TAB e.module S920 is in charge of protecting and controlling a string of 18 e.module H10.2.



For more information, refer to the C183 ESS User Manual.

1.3 Structure

1.3.1 Overview

The indoor version only has a structure that supports the modules, as shown in the following image. It contains:

- 18 x battery module: e.module H10.2
- 1 x control module: e.module S920



1.3.2 Noise emission

Noise emission per device:

- The inverter's noise level is <60 dB(A)
- The internal fans noise level is 43,5dB (A).

The total noise emission of the system is <61 dB(A) at it's loudest.

1.4 C183 ESS Warranty

The TAB warranty covers the C183 ESS and ensures that if a defect occurs within the valid warranty period of five (5) years, the product will be repaired or replaced.

TAB guarantees that the product will retain either seventy (70) percent of its usable capacity at the end of the warranty period or when the minimum throughput energy is reached, whichever comes first.

The minimum throughput energy for a single C183 ESS is 552.96 MWh. The minimum throughput energy for a complete system depends on the number of C183 units in the system.

For further details, please refer to the warranty document.

2 Kaco Blueplanet Gridsave 92.0 TL3-S

The battery inverter enables bidirectional energy conversion for charge/discharge the battery. The main characteristics are shown in the inverter's datasheet. Refer to it for more information.

2.1 Location

The inverter is connected directly to the e.module S920 control module through positive and negative power wires.

The inverter must be installed outside the structure. The wall must be suitable for supporting the inverter, as described in the inverter's User Manual. This option is mandatory for the C183 ESS indoor version.

2.2 Inverter Warranty

TAB may also supply battery or hybrid inverter, which may be considered part of the C183 ESS product. In this case, inverter original equipment manufacturer warranty will be transferred. This warranty may depend on battery inverter.

For more information, refer to the Warranty and Service Conditions for Inverters document of Kaco.

The Kaco Blueplanet Gridsave 92.0 TL3-S inverter manufacturer grants a standard warranty of five (5) years. Also provides three types of warranty extension to a total of 10, 15 or 20 years.

3 Main Configurations

The C183 ESS Indoor version offers scalable energy solutions, ranging from 92 kVA/178 kWh with one cabinet to 552 kVA/1068 kWh with six cabinets. Each configuration adjusts the number of modules and inverters, resulting in weights from 2380 kg up to 14280 kg. This modularity supports various commercial and industrial energy storage needs effectively. The following table shows different configurations:

Art. No	AC Nominal Power / Energy capacity	N° of Cabinets	N° of Modules	N° of Inverters	Gross weight (kg)	Inverter's Packaging Size (H*W*D) mm
C183I11	92 kVA / 178 kWh	1	18	1	2380	790 * 760 * 550
C183I12	92 kVA / 356 kWh	2	36	1	4680	790 * 760 * 1100
C183I22	184 kVA / 356 kWh	2	36	2	4760	790 * 760 * 1100
C183I33	276 kVA / 534 kWh	3	54	3	7140	790 * 760 * 1650
C183I44	368 kVA / 712 kWh	4	72	4	9520	790 * 1520 * 1100
C183I55	460 kVA / 890 kWh	5	90	5	11900	790 * 1520 * 2200
C183I66	552 kVA / 1068 kWh	6	108	6	14280	790 * 1520 * 2200

