

ENERGY STORAGE

EV-ES Heavy series

Heavy 400-600 kWh

The Heavy series energy storage system, boasting a capacity range of 400-600 kWh, represents a high-voltage solution constructed from a multitude of modules derived from **Tesla** electric vehicles. This system seamlessly incorporates integrated inverters to efficiently convert the battery's direct current (DC) into alternating current (AC), optimizing its usability.



The container features metal shelving that securely holds electrical modules, each equipped with a factory CMU (Cell Monitoring Unit) for interfacing with an advanced **EV-ES Battery Monitor**. The modules are grouped and interconnected, with each group managed by a dedicated Battery Monitor that communicates with the central unit overseeing the container's operations.

The container is outfitted with high-efficiency inverters, adept at transforming direct current into single or three-phase alternating current (230 / 400 VAC), each boasting a nominal power output of 20 kW. Enhanced with an air conditioning system, it ensures an ideal environment for the optimal functioning of all housed equipment.

The container is versatile, functioning both as a permanent energy storage solution and as a mobile, temporary storage unit for scenarios like construction projects. Additionally, it offers the option to integrate photovoltaic panels, facilitating continuous energy replenishment.



Heavy technical details:

Description	Unit	Value
Gross weight	kg	3000
Height	mm	2600
Width	mm	2000
Depth	mm	3000
Nominal energy capacity	kWh	400 - 600
Maximum power	kW	3 x 20 kW
Cell type		NCR
Nominal operating voltage	V	430
Operating voltage range	V	395 - 465
Designed charge current	A	35
Designed discharge current	A	35
Operating temperature	°C	0 - 50 ???
Operating humidity	%	0 - 85 ???
Display type		7" touchscreen
Designated work environment		Outdoor
Installation requirements		Metal shipping container
Cooling method		Active cooling

