

## ENERGY STORAGE

### EV-ES GE series

#### Green Energy 40-60 kWh

The GE series energy storage unit, boasting a capacity range of 40-60 kWh, is an advanced high-voltage storage system. It's meticulously engineered using 10 specifically chosen modules, each sourced from **Tesla** electric vehicles, ensuring superior performance and reliability.

Every module is outfitted with an original CMU (Cell Monitoring Unit) that interfaces with the custom-designed **EV-ES Battery Monitor**. This setup enables remote access to the storage unit's parameters and its management over a local network. To guarantee prolonged and safe functionality of the electric cells, the system consistently tracks their parameters, including voltage and temperature, and employs a cell-balancing mechanism to minimize voltage discrepancies between cells.

Designed for portability and durability, this steel-encased unit features a wheeled base for effortless and rapid transport. Its large, touch-sensitive 7-inch display offers a user-friendly interface, ensuring clarity and ease of operation.

The storage unit's electronics are self-sufficient, powered directly by its internal modules, thereby obviating the need for external power supplies.

The storage system is comprehensively outfitted with a precision current meter and contactors, ensuring full operational control. Furthermore, it offers expandability options with modules that are interoperable with inverters from a range of manufacturers, featuring a **CAN Bridge** for enhanced compatibility.



**Green Energy technical details:**

Description	Unit	Value
Gross weight	kg	350
Height	mm	1520
Width	mm	600
Depth	mm	1000
Nominal energy capacity	kWh	40-60
Cell type		NCR
Nominal operating voltage	V DC	215
Operating voltage range	V DC	180 - 249
Maximum charge current	A	35
Maximum discharge current	A	35
Operating temperature	°C	0 - 50
Operating humidity	%	0 - 85
Display type		7" touchscreen
Current measure (CT)		Analog
Contacto type		12V, PWM
Designated work environment		Indoor
Installation requirements		Freestanding metal cabinet on caster wheels.
Cooling method		Passive

