

PRODUCT SPEC SHEET · INTEGRATED PV + BESS + EV

PV. Storage. EV charging. One UL 9540 certified DC bus.

DRAFT SPEC SHEET — engineering review pending. Specific specifications may change before final release.

HELIOS integrates photovoltaic generation, battery energy storage, and EV charging into one UL 9540 certified DC boundary — the same patented architecture that powers XEYAR's standalone chargers. No separate PV inverter, no AC conversion step between storage and chargers. Ideal for dealerships, fleet depots, and commercial sites seeking a single-vendor, single-certification energy solution.

SUPERCAPACITOR OPTION	SODIUM-ION OPTION
EV-charge burst dispatch	Day-through solar buffering

One Architecture, One Certification · PV + BESS + EV share the DC bus — fewer inverters, fewer conversion losses, one UL 9540 AHJ review instead of three separate system reviews.

SPECIFICATIONS

Attribute	Value
Architecture	DC-coupled PV + BESS + EV on shared bus
PV Input	Scales with site (kW range TBD)
BESS Capacity	Modular, scales with deployment
EV Output	L2 + DCFC, mixed on same system
Certification Boundary	UL 9540 DC ESS (patent pending)
Grid Interconnect	IEEE 1547, UL 1741-SB
Ideal Site Size	Dealership, depot, medium C&I;
Typical Conversion Loss Savings	2–5% vs AC-coupled equivalent

IDEAL FOR

- Auto dealerships (service + customer charging)
- Commercial / industrial campuses
- Mixed-use C&I; with solar
- Corporate & fleet depots
- Hotels, hospitality with EV charging
- Net-zero building retrofits

Ready to Specify Your HELIOS Project?

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