



Turn-key Battery Energy Storage Systems from Repurposed EV Batteries

Smartville 600™ ESS

is a Battery Energy Storage System (BESS) designed to repurpose electric vehicle (EV) battery packs into safe, high-performance, and cost-effective energy storage. Leveraging Smartville’s proprietary Battery-Connect software and pack management technology, the system delivers reliable stationary energy storage.

HIGH-PERFORMANCE

Utilizing tier-1 EV battery packs, extending useful life and reducing e-waste.

SAFETY CENTRIC

Uncompromising safety features, including fire detection, active venting, and deflagration design.

MODULAR & SCALABLE

Configurable building blocks ranging from 500 kWh to multi-MWh systems, with secure battery supply and predictive maintenance for each pack.

System

Battery Candidate	Repurposed Tier-1 EV Battery Packs
Battery Chemistry	NCM or LFP Based on customer preference
Weight	~13000 lbs
Dimension	12.6' x 7.4' x 6.1' WxDxH
Weather Rating	IP54
Environmental	Operating -20°C to 60°C 0 to 95% RH, non-condensing
Environmental Control	Liquid heating/cooling - Glycol based
Up-time	95% or greater
Warranty	10 years

Battery Electrical

Capacity	600kWh
Duration	2-10 hours
DC Voltage Input	300-400 VDC
DC Current	400 A
DC RTE	95%
Battery Cycle Life	3000 or 10 years

AC Power Output

Power	60kW – 250kW options
AC Voltage Output	480 3Phase VAC
Applications	Backup Power , Microgrid Grid Integration, Demand Response