



### Smartville 360™ ESS

is a fully integrated energy storage system designed for superior performance, safety, and longevity. Using high-quality repurposed automotive lithium-ion battery packs and proprietary control technology, our modular 500 kWh building block design allows for flexible scalability, ideal for commercial, industrial, and utility-scale applications.

#### HIGH-PERFORMANCE

Uses tier-1 EV battery packs to provide high performance, reliability, and longevity.

#### SAFE

Uncompromising safety features, including fire detection, mitigation and deflagration design

#### SUSTAINABLE

An advanced repurposing electric vehicle battery packs, offering customers a sustainable solution while reducing supply chain risks.

#### System

Battery Candidate	Repurposed Tier-1 EV Battery Packs
Battery Chemistry	NCM or LFP Based on customer preference
Weight	~15000 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 Storage 0°C to 50°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	500~1500 kWh (packing varies by batteries)
Duration	2 ~ 10 hours
DC Voltage Input	300-400 VDC
DC Current	400 A
DC RTE	95%
Battery Cycle	3000 or 10 years
AC RTE	85%
AC Wiring	Recommend 8/3 (preferred) with ground
Communication Interface	Modbus TCP/IP using Ethernet

**Smartville 360** is a cost-efficient and scalable solution for reusing EV batteries and maximizing their second-life value. This is achieved through an AI-enabled battery analytics, proprietary battery control, and an all-in-one modular hardware design.



**Differentiators:**



An AI-powered platform enables procurement and assessment of EV batteries with superior efficiency and quality



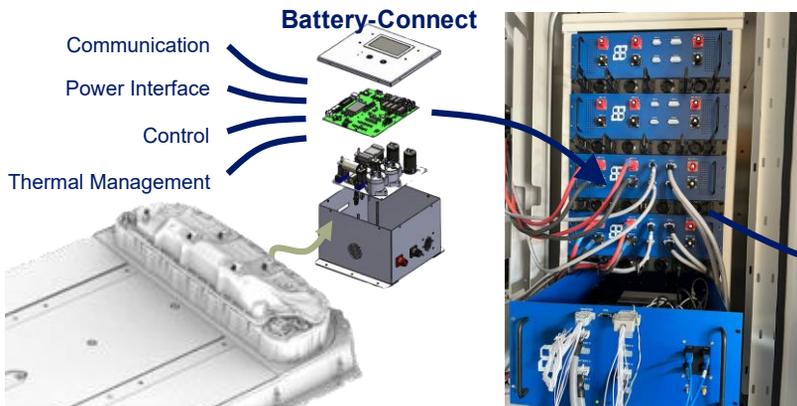
Proprietary 'life balancing' control technology ensures uniform performance across batteries, significantly extending battery cycle life



A modular all-in-one BESS design adaptive to all EV battery makes and models



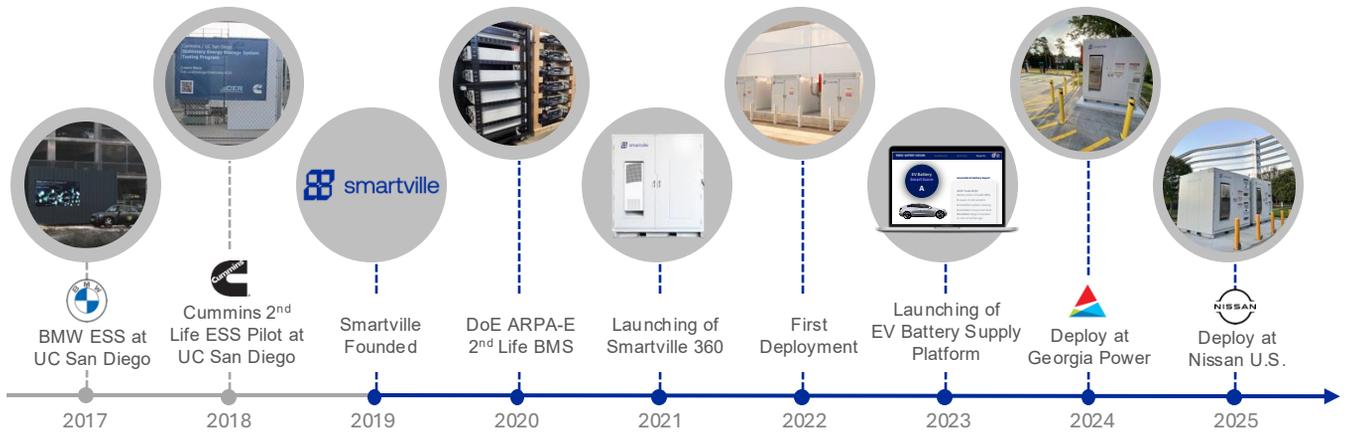
**The only repurposing BESS solution** in the market that combines supply chain integrity, proprietary controls, and modular hardware, with successful integration of multiple EV models.





Deep Product Development Experience And Diverse Installation Use Cases

**10 Years** of 2<sup>nd</sup> life BESS project experience in collaboration with top OEM, EVSE, Government, and commercial partners, across diverse use-case applications.



**ENERGY STORAGE**

Robust integration expertise:

- DC or AC coupling
- Option for energy management systems
- Option for grid forming or grid following configurations

Guaranteed performance:

- 10-year, 3000 discharge cycles
- 1-year craftsmanship and performance guarantee
- Liability insurance coverage on all projects and BESS solutions
- Extended operations and maintenance coverage available

**USE CASES**

Diverse applications:

- Commercial and industrial energy storage
- Virtual power plants / Grid energy storage
- Backup power
- Peak demand reduction
- Renewable integration
- Off-grid energy storage / Mobile energy storage

**Beyond Sustainability**

With second-life BESS, Smartville also connects customers to abundant domestic sources of tier-1 EV batteries, making operations, maintenance, and upgrades more convenient and cost-effective