# Konect

## SP480 Second-Life Battery

480 kWh Rated Energy

**Technical Specifications**
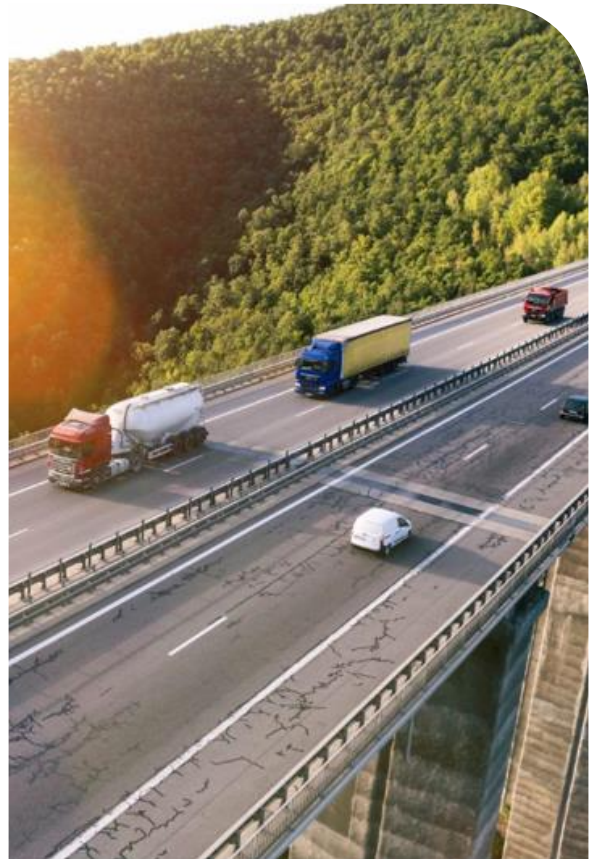
# Konect SP480 kWh Second-Life Battery

Battery energy storage systems paired with EV charging stations can decrease energy cost and establish energy resilience.
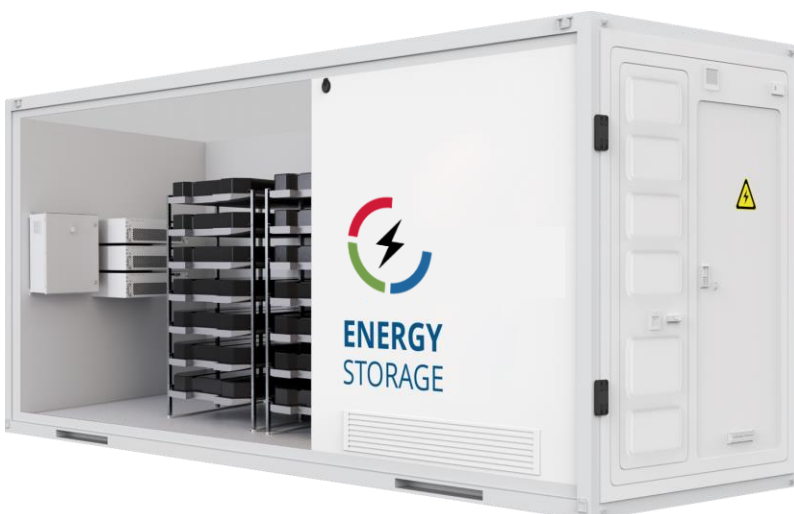
The SP480 provides customers with the most cost-effective, high-performance energy storage for EV charging sites.

Konect's solution repurposes retired EV batteries, significantly reducing the need for harvesting new raw materials. This innovative approach minimizes waste and lowers the overall carbon footprint, helping your business meet its ESG goals, while promoting sustainability and environmental responsibility.

# Technical Specifications

This document provides technical specifications for the 480 kWh second-life battery.

Max output power

## 240 kW

Battery module capacity

## 480 kWh

System duration

## 2 Hours

**\* Image for illustrative purposes only.**

# Battery Specifications

| | SP480 |
|---|---|
| **Rated Energy** | 480 kWh |
| **Rated Power** | 240 kW |
| **Operating Voltage** | 700 Vdc |
| **DC Voltage Range** | 350-750 Vdc |
| **Max. Charging / Discharging Current** | 210 (35 × 6)A |
| **Max. C-Rate** | 1C |
| **Cell** | LFP |
| **Pack Model** | StreetScooter V6 |
| **Power Pack Number** | 12 |
| **Pack Nominal Energy** | 40 kWh |
| **Depth of Discharge (DoD)** | 100% |
| **BMS** | SparkCore |
| **Cycles** | 7500 (@ 100% DoD) |
| **System Round Trip Efficiency** | 89% |
| **Grid Connection Voltage** | 400 / 3Ph Vac |
| **Grid Voltage Range** | 360 – 440 Vac |
| **Nominal Grid Frequency** | 50 Hz |
| **Energy Management** | Renewable integration, Energy shifting, Peak shaving, Dynamic Import Limitation, Site Power Management, Ancillary Services, Demand Response |
| **Safety** | IEC 62619, IEC 62477, IEC 61010, IEC 61508, CE, IEC 62620, UN 38.3, IEC 61000-6 |
| **Grid Connection** | VDE 0126 / IT: CEI-21, UN38.3, TOR D4 Version 2.3:2016-7, DE: VDE-AR-N 4105:2018, VDE-AR-N 4110:2018 |
| **Operating Temperature** | 0 – 50 C˚ |
| **Humidity** | 0-80 % |
| **Max. Altitude** | 2000 m |
| **Cooling** | Forced air |
| **Protection** | IP54 |
| **Total Weight** | 8100 kg |
| **Pack Weight** | 325 kg |
| **Dimensions** | 6.1 m x 2.4 m x 2.6 m (L x W x H) |
| **Installation** | Outdoor |

# SP480 Second-Life Battery

## 480 kWh Rated Energy

## Electrifying futures.

**Find out how your forecourt or fleet depot could benefit from our end-to-end EV charging ecosystem solutions.**

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