

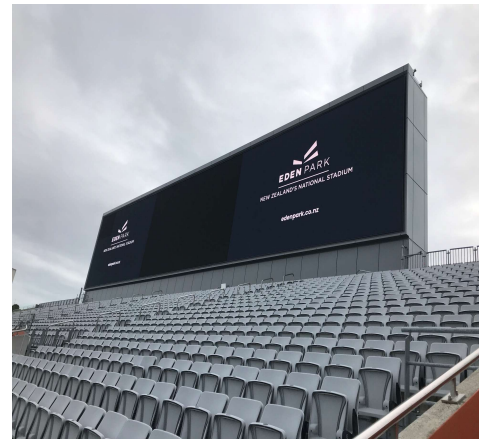


HIGH-POWER ELECTRIC VEHICLE
BATTERY INTEGRATED CHARGING
SOLUTION

INTRODUCTION

LPINZ-PRODUCTS AND SERVICES OVERVIEW

- Major projects LPINZ were involved
 - EV Chargers for Auckland Transport, 150kW DC fast chargers
 - Sky Tower Lightning Protection
 - EDEN Park Stadium Power Quality Solution
 - And Many More...
- Offered Solutions,
 - Power Quality Solutions
 - EV Charging Solutions
 - UPS solutions
 - Earthing Solutions
 - MV and HV Solutions
 - Lightning Protection Solutions



SPECIALISTS IN PROVIDING QUALITY POWER SOLUTIONS

EV MARKET AND CHARGING INFRASTRUCTURE

EV Market in NZ

- EVs have increased from 27k to 78k in the last 4 years
- Around 1200 public chargers in NZ up to date
- One charger for every 59 EVs
- Global Benchmark to have 10 EVs per public charge point

Challenges in Charging Infrastructure

- Unstable Power sources in Rural areas
- High Power requirement for DC charging
- Lack of spare capacity for DC charging infrastructure



INTRODUCTION TO BATTERY POWERED EV CHARGERS

What Is a Battery-Powered EV Charger?

- A self-contained charging solution that integrates a high-capacity battery, allowing it to operate independently of the power grid availability.
- Provides a portable, on-demand energy source for charging electric vehicles wherever needed.

Why Battery-Powered Chargers?

- To establish High Power chargers where electrical connections are not stable (remote areas)
- To have high-power chargers where electrical capacity(MAXIMUM DEMAND) is limited. Supermarkets are just one example.
- Grid upgrades are very costly or sometime not possible

LPINZ-ELUMINA ULTRA FAST CHARGING SOLUTION

ALL IN ONE ULTRA FAST D1 CHARGER

- **OUTPUT**

- Maximum output Power - **204kW**
- Number of Charge Ports – **2 (CCS2, CHAdeMO)**
- Max Power Per DC Gun – **160kW(Customizable)**

- **INPUT**

- AC supplementary Power - **40kW**
- AC voltage – **400Vac**
- Rated Input Current – **63A**

- **Energy Storage**

- Energy Chemistry - **Lithium Ion (LFP)**
- Energy Storage Capacity – **193kWh**
- Battery Cooling/Heating – **Liquid Cooling**

- **Network**

- Network Connection - **4G LTE, Ethernet**
- Communication – **OCPP 1.6**
- POS Payment – **Credit card & Debit card**



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- **Additional Features**

- 43" Display for additional revenue opportunities
- Portable: move to a new location using forklift/crane
- Can be powered through an Aero Plug / Aviation Plug (Mennekes)
- Can be wrapped/decaled to your own designs

- **Key Locations of implementation**

- Supermarkets
- EV fleet-managed institutes
- Remote areas with unreliable power supplies (Along state Highways)
- Fuel Stations
- Public parking locations





THANK YOU FOR YOUR INTEREST.
FOR FURTHER INFORMATION ABOUT THIS PRESENTATION,
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