

**DOCKETED**

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# LUCID

CEC Workshop on V2H/V2B



Startup Technology Company

HQ in Silicon Valley

Factory in Arizona

~1600 Employees

Lucid AIR, a Luxury EV

>500 miles, >1000hp

Battery Size up to 113kWh

AC & DC bi-directional capability



On sale in Spring 2021

[lucidmotors.com](https://lucidmotors.com)

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LUCID

Lucid's on-board charger (OBC) technology is cutting-edge and multifunctional.

- AC charge/discharge rate: up to 80A/19.2kW
- High power 800V DC charging at >300kW
- Supports ISO11158 & CCS communications
- Compact, light-weight and cost effective

## The Lucid Connected Home Charging Station:

- Wall-mounted, hardwired EVSE capable of **up to 19.2kW** (1-phase, 80A) in NA
- Variable amperage support to be flexible for any home's electrical capacity
- Hardware-ready for bi-directional charging (V2H, V2G)
- Supports ISO15118 communication
- WiFi, Ethernet & LTE connectivity options
- **Launching in late 2021**



- Current state of charging infrastructure leads OEMs to include AC on-board chargers in their current and upcoming vehicle programs.
- OBC's include inverters that can be made bi-directional for low marginal hardware costs and thereby enable AC V2H.
- AC V2H does not require duplicating the vehicle's inverter on the side of the building and therefore avoids redundant hardware and cost structures, which can lower the cost barrier to V2H, especially in retrofit scenarios.
- DC V2H/B can play a role in new construction and commercial settings that require higher power levels.



Reserve your Lucid Air

*Thank you!*

