

# EV Whale Commercial

## Battery-Buffered DC Fast-Charging System

PRELIMINARY PRODUCT CONCEPT · REV 0.1 · 02 SEP 2026



## Compact energy storage. High-power DC charging.

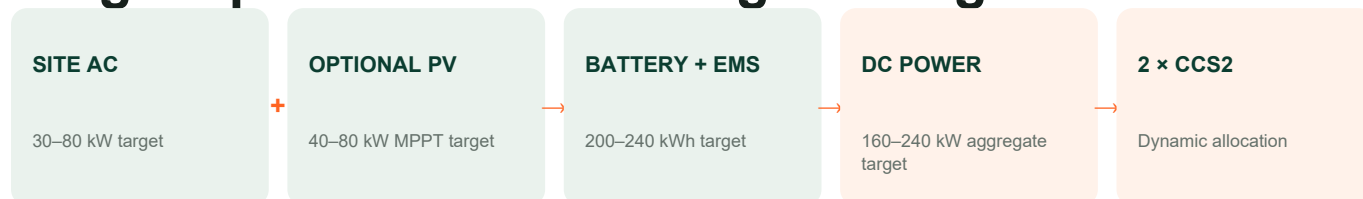
A compact, serviceable commercial system that stores energy from the site connection and optional solar, then releases it at higher power when vehicles arrive.

**The grid supplies energy over time. The battery delivers power when demand peaks.**

### APPLICATIONS

- Retail and commercial parking
- Hotels, tourism and destinations
- Dealerships and service centres
- Small fleets and regional public charging

# Target specification and engineering boundaries



|                          |                                                                                    |
|--------------------------|------------------------------------------------------------------------------------|
| <b>Product status</b>    | Preliminary concept; not released for procurement, approval or construction        |
| <b>Storage</b>           | Approx. 200–240 kWh configurable liquid-cooled LFP target                          |
| <b>Site AC input</b>     | Approx. 30–80 kW target; final voltage, current, PF and harmonics TBC              |
| <b>Optional solar</b>    | Approx. 40–80 kW dedicated MPPT DC/DC target; voltage range and Voc TBC            |
| <b>Charging output</b>   | Approx. 160–240 kW aggregate target; two outlets with dynamic sharing              |
| <b>Vehicle interface</b> | CCS2; approximately 200–1,000 V DC target; current and constant-power range TBC    |
| <b>Concept envelope</b>  | Approx. 1.50–1.60 m W × 1.25–1.35 m D × 2.20 m H                                   |
| <b>Concept mass</b>      | Approx. 2.8–3.5 t, dependent on battery and power configuration                    |
| <b>Outdoor target</b>    | IP55-class enclosure target; final cooling, noise, corrosion and ambient range TBC |
| <b>Connectivity</b>      | OCPP 2.0.1 target; 4G/Ethernet; CAN/RS-485 internal interfaces                     |
| <b>Payment options</b>   | EFTPOS, NFC, RFID and EV Whale App integration target                              |
| <b>Compliance</b>        | RCM and applicable AS/NZS, IEC and fire-safety validation TBC                      |

## Power claim boundary

Maximum charging power and duration depend on usable battery energy, starting SOC, temperature, site grid and PV recharge, vehicle voltage, BMS/EMS limits and complete-system derating. Battery buffering can reduce or defer a major grid upgrade; it does not remove DNSP, electrical, planning or fire-safety requirements.

Release datasheet must confirm usable energy, SOC window, recovery time, continuous/peak power and duration, derating curves, efficiency, standby loss, thermal design, IP/IK/corrosion/noise, foundations and clearances, certificate numbers, warranty and service SLA.

# EV Whale Commercial

## 工商业储能缓冲直流快充系统

初步产品概念 · REV 0.1 · 2026年9月2日



## 紧凑储能，释放高功率直流快充。

紧凑、可维护的工商业系统，利用现场电网和可选光伏持续为储能补能，并在车辆到站时以更高功率释放。

电网持续补能，储能在充电高峰释放功率。

### 适用场景

- 零售与商业停车
- 酒店、旅游与目的地场景
- 汽车经销商与服务中心
- 小型车队与区域公共充电

# 目标规格与工程边界



|        |                                            |
|--------|--------------------------------------------|
| 产品状态   | 初步概念；尚未发布为采购、报批或施工数据表                      |
| 储能     | 约200–240 kWh可配置液冷LFP设计目标                   |
| 场地AC输入 | 约30–80 kW目标；最终电压、电流、功率因数与谐波待确认             |
| 可选光伏   | 约40–80 kW独立MPPT DC/DC目标；电压范围与最大Voc待确认      |
| 充电输出   | 约160–240 kW站级目标；双终端动态功率分配                  |
| 车辆接口   | CCS2；约200–1,000 V DC目标；电流与恒功率范围待确认         |
| 概念外形包络 | 约1.50–1.60 m（宽）× 1.25–1.35 m（深）× 2.20 m（高） |
| 概念整机质量 | 约2.8–3.5 t，随电池与功率配置变化                      |
| 户外设计目标 | IP55等级柜体目标；最终散热、噪声、防腐和温度范围待确认              |
| 通信     | OCPP 2.0.1目标；4G/以太网；内部CAN/RS-485接口         |
| 支付选项   | EFTPOS、NFC、RFID与EV Whale App集成目标           |
| 认证与合规  | RCM及适用AS/NZS、IEC与消防验证待确认                   |

## 功率声明边界

最大充电功率及持续时间取决于可用电池能量、起始SOC、温度、现场电网和光伏补能、车辆电压、BMS/EMS限制以及完整系统降额。储能缓冲可减少或延后大规模配电增容，但不会免除DNSP、电气、规划或消防要求。

正式数据表必须确认可用电量、SOC窗口、恢复时间、持续/峰值功率及持续时间、降额曲线、效率、待机损耗、热管理、IP/IK/防腐/噪声、基础与检修净距、证书编号、保修与服务SLA。