



EVL2 Series

19.2KW GEN2 (80A MAX.) SPECIFICATION DATA SHEET





Project

Type

Catalog No.

Electric Vehicle Charging Station – Level 2

19.2kW Gen2 (80A max.) Specification Data Sheet

Municipal, Utility, DOT, Residential, Retail, & Commercial Applications



Ordering Information

Sample Catalog No. EVL2-80A-ADV-WEL-J125-POS

Product Series	Output (PWR)	Product Display	Communication (COM)	Connector Type / Cable Length	POS (PAY) / Enclosure Rating
EVL2	80A – 80A/19.2kW	S - OCPP ¹ (No display)	WE ~ Wi-Fi + Ethernet	J118 ~ SAE J1772, 18ft J125 ~ SAE J1772, 25 ft NC25 ~ NACS, 25ft	Not available
		ADV ~ OCPP ¹ + ISO15118 + 5 x 8" Display	WE ~ Wi-Fi + Ethernet WEL ~ Wi-Fi + Ethernet + LTE (4G)		LPOS ~ Less POS, (RFID) POS – POS enabled (RFID, Contact & Tap-to-Pay Payment)

Accessories (Add-On)		AmpUp Subscription
CJ18 - 18ft J1772 Cable CJ25 - 25ft J1772 Cable CN25 - 25ft NACS Cable CD - Cable Dock H1 - J1772 Holster H2 - NACS Holster 10PK - LEOTEK RFID Cards (10 pcs) HB - High Bollard	SP - Single Pedestal DP - Dual Pedestal ² SPR - Single Pedestal (EZ Pull) DPR - Dual Pedestal (EZ Pull) ² CR - Cable Retractor F - Foundation WMG - Wall Mount Guard	C1 - Core Subscription (1 year) ³ C3 - Core Subscription (3 years) C5 - Core Subscription (5 years) P1 - Pro Subscription (1 year) ³ P3 - Pro Subscription (3 years) P5 - Pro Subscription (5 years)

Note

- 1.Default protocol: OCPP 1.6j. OCPP 2.0.1 upgrade available.
- 2.Dual Pedestals require a second charger ordered separately
- 3.Automatically renew for successive 12-month terms unless either party provides written notice of non-renewal at least 30 days before the renewal date.



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General Specifications	
Input Rating (V) / Frequency (Hz)	208 / 240 Vac, 1Ø / 60Hz
Metering Accuracy	On power-board, ±1%
Real-Time Clock	Yes (min. 7 days)
Wi-Fi	802.11 b/g/n
Ethernet	YES
RFID	ISO 14443 A/B, ISO 15693, FeliCa
Display	116(L)*8.5(W)*37(H)mm, 5.57mm CHARACTER HEIGHT 5*8 DOT MATRIX, OLED 20x2
Backend Protocol	OCPP 1.6J / OCPP 2.0.1 (Upgradable)
EV Protocol	ISO15118 Plug & Charge
Operating Temp	-35 ~ 50 °C (-31 to 122 °F), 50 ~ 55 °C (122 to 131 °F) de-rating to Max. 60A
Storage Temp.	-40 ~ 80 °C (-40 ~ 176 °F)
Mounting Type	Wall Mount / Pedestal
Impact Rating	IK10
Dimensions	8.74" (W) × 11.81" (H) × 3.82" (D)
Weight	31lb
Web Portal Management	Yes
Console Management	Yes
Certification	UL 1998 / 2231 / 2594, FCC Part 15B / 15C/ IC, ICES-003, CTEP, Energy Star

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Housing & Construction

The LEOTEK EVL2 80A enclosure is engineered for high-demand residential, multi-family, fleet, parking, municipal, utility, DOT, and commercial charging applications. The charger is designed to deliver a higher Level 2 charging output while maintaining a compact wall-mounted or pedestal-mounted form factor. The non-POS configuration measures approximately 10.63" (W) × 14.17" (H) × 5.47" (D), while the integrated POS configuration measures approximately 11.18" (W) × 14.17" (H) × 5.47" (D). Mounting provisions support standard wall mount and standalone pedestal applications to accommodate diverse site layouts. The standard non-POS enclosure is rated NEMA 4 for enhanced ingress protection, while models configured with the integrated Point-of-Sale system are rated NEMA 3R.

Electrical Specifications

Standard unit accepts 208 / 240 VAC, single-phase (1Ø) input at a frequency of 60Hz, aligning natively with North American and LATAM grid standards. Precision on-power-board metering provides an accuracy rating of ±1% for reliable energy tracking and billing reconciliation. Electrical components are supported by a built-in real-time clock featuring a minimum 7-day power-loss backup to maintain operational synchronization.

Controls & Connectivity

Comprehensive network connectivity ensures continuous communication with backend systems. Standard network hardware includes integrated Wi-Fi (802.11 b/g/n) and hardwired Ethernet. ADV models feature embedded LTE Cat 1 cellular telematics for reliable, low-latency connectivity across widespread regional deployments. Local user interface via a OLED 20x2 display with a 5x8 dot matrix format for charger status and secure authentication via an integrated RFID module (compatible with ISO 14443 A/B, ISO 15693, and FeliCa standards) are exclusive to ADV models. Both S and ADV configurations fully support Web Portal Management and local Console Management.

Network & EV Protocols

System architecture is fully compliant with modern open standards, utilizing OCPP 1.6J backend protocols, and is field-upgradable to OCPP 2.0.1 to ensure future-proof integration with expanding network management software. Vehicle-to-charger communication supports the ISO 15118 Plug & Charge protocol, streamlining the charging experience without requiring manual RFID or app-based authentication.

Integrated Payment Systems

Optional open-payment architecture incorporates an integrated ID TECH VP3300 Payment Terminal. Hardware is EMV Level 1 and Level 2 security certified. Physical payment interfaces are dual-zoned, featuring a side-mounted EMV contact/swipe module and a contactless reading zone located at the front and side of the unit. The terminal supports comprehensive payment modalities including EMV contact and contactless interfaces, alongside mobile wallet compatibility (Apple Pay, Google Pay, Samsung Pay). Integrated Value-Added Services (VAS) provisions support Apple VAS and Google Smart Tap for advanced loyalty, ticketing, and transit pass applications.

Transaction Processing & Integration

Direct credit card transactions (Pre-auth, Void, Complete Transaction) are processed via native charger firmware integration with the ID TECH SDK. Financial data is transmitted securely via USB and RS-232 internal connectivity to primary processors, accommodating Worldpay (direct) or Worldnet (gateway) architectures. Note: specific reader hardware configurations are processor dependent. For closed-loop network applications, the terminal reads the card or device UID (via RFID, Apple VAS, or Google Tap) and relays data directly to the OCPP server for centralized network authorization.

Merchant Setup & Network Compatibility (Exclusive for ADV models)

Merchant onboarding and provisioning are facilitated via ID TECH, enabling the secure injection of the unique Merchant ID into the controller through OCPP. The integrated multi-protocol RFID reader maintains broad standard compliance, supporting Type A, Type B, Mifare (Standard, U, DesFire, SmartMX 1K & 4K, Ultralight C, Ultralight & EV1, DESFire EV1 4K, Plus), and FeliCa card architectures.

Listings/Ratings/Labels

Chargers are UL listed for safety and compliance in the United States and Canada, conforming to UL 1998, UL 2231, and UL 2594. Electromagnetic compatibility (EMC) meets or exceeds FCC Part 15B / 15C/IC, as well as ICES-003 requirements. Chargers are California Type Evaluation Program (CTEP) certified for commercial weights and measures compliance and is Energy Star® certified for optimized standby power consumption.

Operating Environment

Designed to withstand severe climatic variations, the charger is qualified to operate at ambient temperatures ranging from -30°C to 50°C (-22°F to 122°F). From 50°C to 55°C (122°F to 131°F), the charger supports derated operation with a maximum output of 60A. For logistics and inactive periods, the unit supports storage temperatures between -40°C and 80°C (-40°F to 176°F).

Vandal Resistance

Housing and vital user-facing components are impact rated to IK10, providing maximum mechanical protection against physical damage, blunt force, and vandalism in unmonitored public installations.

Warranty

3-year limited warranty is standard on electrical components excluding charging cable.

EV Charger Accessories



Single Pedestal



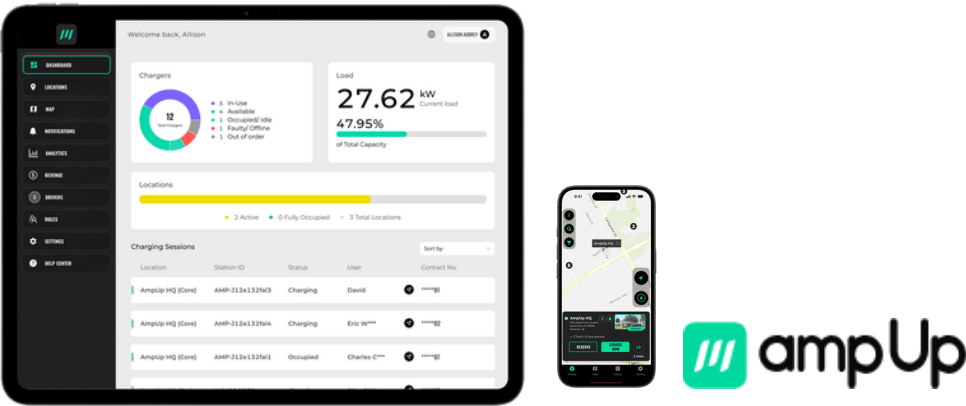
Dual EZ Pull Pedestal



Foundation



Cable Retractor



Feature Category	Function	Starter (Free Public Charging)	Core (Commercial Sites)	Pro (High-Demand Hubs)
Essentials	Driver Reservations	✓	✓	✓
	RFID Support	✓	✓	✓
	Remote Diagnostics	✓	✓	✓
	Analytics & Reporting	✓	✓	✓
	Location on Mapping Services	✓	✓	✓
	Public Charging Access	✓	✓	✓
Revenue & Access Control	Revenue Collection	—	✓	✓
	Driver Access Groups	—	✓	✓
	Multi-Site Management	—	✓	✓
	Multi-User Account	—	✓	✓
	Direct Deposit Payouts	—	✓	✓
Advanced Features	Offline Session Management*	—	—	✓
	Advanced Load Management	—	—	✓
	Fleet Management	—	—	✓
	Tiered Pricing Models	—	—	✓
	Time-of-Use Rates	—	—	✓
	Time-Based Access Control	—	—	✓
	Session Limits & Idle Fees	—	—	✓
	Session Start Fees	—	—	✓