

FRACTALEV™

48A and 80A Level 2 chargers for Stand Alone or OCPP operation

	Offline Charger	FractaleV with FractalCloud	Other Chargers with OCPP	FractaleV with OCPP and FractalCloud
Cost	One time: ~\$500 - \$2000 Monthly: \$0	One time: ~\$1000 - \$2000 Monthly: \$0	One time: ~\$1000 - \$2000 Monthly: ~\$15 - \$30	One time: ~\$1000 - \$2000 Monthly: ~\$15 - \$30
Logistics Flow	E-commerce style logistics Easy purchase, direct ship to end customer	E-commerce style logistics Easy purchase, direct ship to end customer	Ship to warehouse for pre-commissioning and stickering then ship to site, factory pre-commissioning/stickering may be available for large orders	E-commerce style logistics Easy purchase, direct ship to end customer
Commissioning	No Commissioning	Factory Commissioned (No local commissioning)	Manual Commissioning App based or computer based commissioning done either onsite or in warehouse, factory commissioning may be available for large orders	Factory commissioned to FractalCloud and remotely configured to OCPP vendor (No local commissioning)
Authentication Modes	No Authentication controls	PIN Code restricted and/or RFID	App, Website, or RFID authentication	PIN code, App, Website, or RFID authentication
Diagnostics	No Diagnostics (sometimes some local diagnostics are available by connecting directly to the charger)	Robust Cloud Diagnostics and Onscreen Feedback including Network Data and Fault Data	Batched error logs and fault notifications (only available when OCPP is functional)	Robust Cloud Diagnostics and Onscreen Feedback including Network Data and Fault Data
Onsite Troubleshooting	Model Dependant Rarely direct interfaces (screens), typically reliant on bluetooth for an app	Touch Screen to troubleshoot charger	Model dependant Limited information available on most screens (when they are present). Typically reliant on bluetooth for app settings configuration (if functional)	Touch Screen to troubleshoot charger

	Offline Charger	FractalEV with FractalCloud	Other Chargers with OCPP	FractalEV with OCPP and FractalCloud
Remote Troubleshooting	None	Full remote settings control Ability to make changes to offline chargers using mesh connectivity. Factory installed SIM card for as-needed LTE device recovery	Some ability to change settings via OCPP (only available when OCPP is functional)	Full remote settings control Ability to make changes to offline chargers using mesh connectivity. Factory installed SIM card for as-needed LTE device recovery
Firmware Management	None / Onsite manual updates	Full remote firmware management suite Includes transparent firmware channel subscription and direct firmware version control	Manual firmware updates via OCPP (only available when OCPP is functional)	Full remote firmware management suite Includes transparent firmware channel subscription and direct firmware version control
Discoverability	None	None	Map functionality and Discoverability driven by software vendor (OCPP Vendor dependant)	Map functionality and Discoverability driven by software vendor (OCPP Vendor dependant)
Payments	None	None	Full OCPP payment functionality (OCPP Vendor dependant)	Full OCPP payment functionality (OCPP Vendor dependant)
Load Balancing	None	Comprehensive load sharing for balancing the draw when oversubscribing infrastructure. Enables multiple chargers to be installed on a single circuit with no external or cloud dependencies	Grid integration and cost optimization functionality available (OCPP Vendor dependant)	Choice of FractalEVs basic load balancing or Grid integration and cost optimization functionality through OCPP (OCPP Vendor dependant)
Integrations	None	FractalAPI* (in development)	APIs via OCPP vendor (OCPP vendor dependant)	APIs via OCPP vendor (OCPP Vendor dependant) and FractalAPI* (in development)
Lockin / System Migrations	Hardware is deployed for full hardware lifecycle	Hardware is deployed for full hardware lifecycle	Hardware is deployed for full hardware lifecycle and Software is locked in for hardware lifecycle (Software vendor typically can be changed via an onsite service call)	Hardware is deployed for full hardware lifecycle, software may be remotely changed to prevent lockin