

RES-D2-CS20 ELECTRIC VEHICLE (EV) DC FAST CHARGER DISPENSER DATASHEET

EV Charging with High-Reliability & Power

Today's medium- and heavy-duty (M/HD) EVs can have storage capacities from 150kWh to over 600kWh. These vehicles need dispensing systems that have been designed to continuously supply large amounts (60kW to 125kW) of clean DC power on a continuous basis, without impacting their reliability.



M/HD EV Dispensers Designed for Fleets

Rhombus dispensers are built to meet the needs of M/HD EV fleet operators. This includes the ability to locate the dispenser next to the vehicles, up to 600 feet away from the PCS.

Our dispensers also have the capability of gathering a variety of data from the EVs being charged, simplifying the overall task of EV fleet management. Our dispensers are also fully certified to UL 2202 and UL 2231.

Vehicle to Everything (V2X) Technology

The utility grid's resilience is constantly being challenged, from both weather event and peak loads. Vehicle to grid (V2G) provides the ability to offset peak loads by offering/selling excess vehicle power back to the grid, reducing total energy costs. Vehicle to building (V2B) enables vehicle energy to power critical building circuits during power outages, improving overall grid resilience. Rhombus charging solutions are UL 1741-SA certified, simplifying fleet operator deployment of V2X-capable charging systems for the M/HD EV fleets.

Model	Rhombus RES-D2-CS20-V2G	
Compatible Rhombus Inverters	RES-DCVC60-480-V2G (60kW)	RES-DCVC125-480-V2G (125kW)
Charge Only Model #	Rhombus RES-D2-CS20	
Compatible Rhombus Inverters	RES-DCVC60-480 (60kW)	RES-DCVC125-480 (125kW)
DC Output/Input (Dispenser)		
Rated Power (kW)	60kW	125kW
Rated Operating Voltage Range: Vdc)	270 - 870	530 - 920
Rated Current: (Adc)	ffl200Adc	
Connector and Cable	CCS 1, 25ft (standard)	
Mechanical		
Dispenser Envelope Dimensions	~17"D x ~22"W x 75" H	
Dispenser Weight	~150 lbs. (configuration dependent)	
Environmental		
Environmental Rating	NEMA 3R	
Operating Ambient Temp.	-20 °C to 45 °C (-4 to 113°F)	
Storage Temperature Range	-30 °C to 60 °C (-22 to 140°F)	
Humidity	0 to 95% (non-condensing)	
Altitude	De-rated over 2,000m above sea level	
Communication & Control		
EV Communication	DIN 70121, SAE J1772 & ISO 15118-2 ¹	
External Control & Management	OCPPI.6 J Rhombus VectorStat® for enhanced diagnostics and energy management.	
User Interface / HMI	Standard: Multi-color LED Status Indicator Option: 7" touchscreen Option: Cord Management	
Network Interface	Standard: Cellular (4G/LTE) + WiFi + Ethernet w/ configurable fallback redundancy. Option: Ethernet only.	
Certification, Safety, Compliance		
Dispenser Certifications	UL 2202 w/ compatible Rhombus PCS.	

¹ISO 15118-2 EV to EVSE communication standard is limited to "Charge Only". Pending updates to the ISO 15118 standard are expected to expand support for V2G communication and capabilities. Early V2G demonstrations require custom communication and control development. Please talk with your sales representative to discuss your application.

All specifications are configuration dependent and subject to change
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Dispenser Dimensions

