

J3400 (NACS) Market Development Update

July 18, 2025

- 100% of major automakers in North America have committed to adopting the J3400 (NACS) standard for light-duty, passenger electric vehicles.
- J3400 (NACS) enables widespread access to reliable, nationwide networks of public chargers.
- In September 2024, SAE published the Recommended Practice for J3400 (NACS) which is currently being used to inform the manufacturing of charging connectors and vehicle inlets. It is considered to be a “substantially complete specification” for charging funding opportunities.¹

J3400 (NACS) Connector Geometry



Figure 3: Physical connector and inlet.

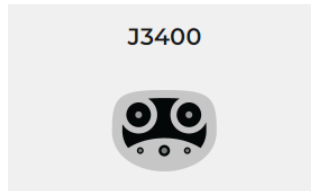


Figure 2: Illustration of J3400 interface.



Figure 1: Hyundai Ioniq 5 w/ native J3400.

J3400 (NACS) Market Adoption & Standardization Timeline

2022	J3400 (NACS) adoption discussions begin with automakers
2023	J3400 (NACS) agreements with automakers completed
	June – SAE announces it will standardize NACS
	July – SAE creates a task force to handle development of SAE J3400 NACS
	December – J3400 Technical Information Report (TIR) published by SAE
2024	Automakers start to gain access to Supercharger Network
	September – J3400 Recommended Practice (RP) published by SAE
2025	Automakers release first non-Tesla native NACS vehicles, non-Tesla charging networks release NACS charging connectors
	May - NACS charging connector standard published by SAE (J3400/2) ²
2026	Expanded EV offerings released and charging networks opened with native NACS
2027	Anticipated widespread use of NACS as default connector for passenger vehicle charging ¹



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¹ California Energy Commission October 2024 [Updated Statement on the SAE J3400 North American Charging System](https://efiling.energy.ca.gov/GetDocument.aspx?tn=259383):
<https://efiling.energy.ca.gov/GetDocument.aspx?tn=259383>

² SAE International® Publishes SAE J3400/2 Standard to Accelerate Safer, Faster EV Charging Across North America:
<https://www.sae.org/news/press-room/2025/05/sae-j3400-2-standard>