

# EV EXPRESS™

## DC FAST CHARGING STATION

### SAFE, FAST AND RELIABLE

AVAILABLE IN 42 KW AND 66 KW MODEL

EV Express 42kW DC Quick charging station offers Electric Vehicle owners an opportunity to charge their car safely and quickly. A typical electric car with 24kWh battery pack may be charged as quickly as 20 minutes to get up to 80% of its capacity. The EV Express Ultra Fast 66 kW Charging Station can charge an electric car as quickly as 10 minutes

The EV Express combines industry standardization with advanced charging technology to support next-generation electric vehicles. Its multi-protocol design allows for easy tailoring to support CHAdeMO and SAE standards for DC fast charging applications. Seamless integration with several payment & billing platform solutions enable easy and secure payments via smart-phone, station payment terminals and RFID card. The EV Express' smart connectivity allows remote monitoring, maintenance and functional upgrades providing customers with real time services on-demand.

### FEATURES

- Built-in safety measures
- User friendly interface
- Flexible multi-protocol design
- CHAdeMO and SAE protocol compatible
- Durable enclosure
- Wide temperature range: -35°C to +55°C
- Scalable and robust architecture
- Point-of-Sale (POS) options
- Data management and metering options
- Wireless communication remote monitoring and assistance
- Available in several models for different applications

### APPLICATIONS

- Service station operators
- Public corridor charging along the highways
- Busy urban areas
- Commercial fleet operators
- EV Infrastructure operators and EVSE providers

### OPTIONAL FEATURES

- Pin code authorization
- Input power limiting software avoids expensive grid upgrades
- Galaxy web based management software module with data per user
- Fleet access management module
- Point of sale, back office integration to enable external payment solutions
- Charger status information for car navigation purposes



42 KW FAST CHARGER



### EV CENTERS OF AMERICA

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## SPECIFICATION FOR MODEL 42 KW AND 66 KW DC FAST CHARGER

	PARAMETERS	PERFORMANCE
Input	Input voltage range	480V, 3-Phase AC (other inputs available)
	Rated input voltage range	50 Hz / 60Hz
	Max input current	≤ 58 Ampere (for 42 kW charger) ≤ 90 Ampere (for 66 kW charger)
	Max power factor	≥0.99
	Total harmonic wave	≤ 5%(under rated input voltage, 100% load)
	Starting impact current	≤150%
	Input voltage testing accuracy	± 3V (432V ~ 528V)
Output	Output Voltage Range	(a) 250V~550V adjustable (b) 450V~750V adjustable
	Output current	(a) 94A (b) 70A (42 kW Charger) (a) 149A (b) 110A (66 kW Charger)
	Efficiency	≥ 93% (50% -100% power), max efficiency 94 .5%
	Rated output power	42 kW (for 42 kW Charger) 66 kW (for 66 kW Charger)
	Output response time	After receiving start command, output voltage become stable in 5s, overshoot is less than 10%. After receiving shutdown command, output current reduces to 10% in 100ms, and current reduced to 0A in 200ms.
	Internal detection precision	Voltage: ± 0.1V Current: ± 0.1A
	Dimension (42 kW)	64.6 in x 23.5 in x 19.7 in
	Dimension (66 kW)	72.8 in x 31.5 in x 27.6 in
<b>PROTECTIVE CHARACTERISTICS</b>		<b>PROTECTION VALUE</b>
Output over-voltage protection		528 VAC ± 5V Recovery voltage
Input under-voltage protection		432 VAC ± 5V Recovery voltage
Output short-circuit protection		Charger won't restart automatically but deadlocked automatically. Restart manually after the fault is removed.
Fan fault protection		If there is 1 or 2 fan fault happen, power module stop output, Disconnect input relay.
Internal temperature protection		Power module stop output when its internal temperature higher than 85±3℃. Power module recover output when its internal temperature drops to 70℃±3℃.
Communication fault protection (BMS mode)		Charger will shutdown if it does not receive BMS messages for 10 s



**EV Express is compatible with CHAdeMo and SAE Combo Connector**



**66 KW ULTRA FAST CHARGER**



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