

QUENCH



Ador Group

Powering India's Growth



1908
JB Advani & Co.



1948
Ador Multiproducts
• Cosmetic & Clean Beauty



1951
Advani-Oerlikon Ltd.
• Welding



1974
Ador Fontech
• Reclamation Welding
• Surface Engineering
• Plasma Cutting



1995
Ador Powertron
• Electronic Components for Thermal Power Plants
• Traffic Solutions



2003
Ador Welding
(Formerly Knownn as advani Oerlikon)
• Name changed from Advani-Oerlikon Ltd. to Adur Welding Limited



2013
Ador Digatron
• Energy Storage
• Battery industry



2015
Flash Orthodontics
• Clear Aligners
• 3D Printing



2020
Quench EV Chargers
• Battery Charging Technologies



Ador Welding Limited
• Welding
• Cutting
• Autumation
• Flares & Process Equipment

Since
1908

Customer Range
Innovating for a Smarter,
Safer & Cleaner Tomorrow

Ador Group is a 115-year-old Indian conglomerate that has supported the core infrastructure sector globally. As trusted partners to the industry, we have remained at the forefront of innovation through solutions for clean air, safe cities, and zero carbon emissions processes.

As champions of India's EV transformation, Quench a brand by Ador delivers cutting-edge electric vehicle charging solutions engineered for Indian roads and conditions. Our chargers are designed to support the nation's shift toward sustainable mobility, combining local innovation with global-grade technology to power a cleaner, connected future.



EV Chargers



Road Safety Solutions



Battery Formation & Testing



Clean Air Solutions



Hydrogen Power Systems



Defence Sector

QUENCH

Quench is powered by German technology. Specifically designed for the most extreme conditions on Earth, Quench can withstand the harsh deserts of Saudi Arabia and the ultra-cold climates of Scandinavia. With chargers installed across 9 different countries, Quench is trusted globally.

Quench is part of a technology group that provides deep industrial power electronics design and software, along with technical knowledge for resilient battery formation rectifiers, battery testing equipment, battery charging technologies, and numerous customized high-capacity power sources, including Electric Vehicle DC hyperchargers.



Friendly
Interface



24/7 Network
Operating Center

Comprehensive EV Charging Portfolio

Quench is a resilient, reliable, and robust charger capable of charging all EVs on the market. Quench is inspired by the most extreme conditions on earth and can efficiently operate in a wide range of temperatures and weather conditions. backed by our 24/7 network operating center, quench ensures a frictionless charging experience at all time.

From compact AC chargers to high-performance DC fast charging systems, we offer a comprehensive range of EV charging solutions, engineered to perform reliably even in the most demanding environments on Earth.



Customizable
Design



Leading
Industry Features

Quench AC

AC 7.4kW | 11kW | 22kW

A New Era in Home EV Charging

The Espresso series offers a range of options from 7.5kW to 22kW, compatible with all modern EVs via its Type 2 connector. It boasts a beautifully designed exterior complemented by a 4.3-inch LCD display for easy monitoring along with advanced features such as RFID authentication and Autocharge to ensure a frictionless charging experience.

TECHNICAL SPECIFICATIONS

Parameter	AC TYPE2 7.4KW	AC TYPE2 11 KW	AC TYPE2 22 KW
Input Voltage	Single phase: 230VAC+/-20% (P+N+PE)	Three phase: 400VAC+/-20% (3P+N+PE)	Three phase: 400VAC+/-20% (3P+N+PE)
Input current	32A	16A per phase	32A per phase
Frequency	50Hz +/- 3%		
Output voltage	Single phase: 230VAC+/-20%	Three phase: 400VAC+/-20%	
Output current	32A	16A per phase	32A per phase
Output power	7.4KW	11 KW	22 KW
No. of Output	Single Gun, AC type II		
Network type	Wi-fi & GSM(3G/4G)		
Connector type	AC type 2 cable with vehicle charging connector.		
Cable length	5 m		
Protection	Overcurrent, Overvoltage, Undervoltage, Leakage current protection, Surge protection, Over temperature, Emergency Stop.		
Charging mode	Mode 3		
User authentication	RFID, Mobile Application.		
Communication protocols	OCPP1.6 J		
LED Indication	Charger states - Idle, live, charging & fault		
Operating Temperature	-25 to 55°C		
Storage Temperature	-20 to 70 °C		
Humidity	< 95% relative humidity, non-condensing		
IP rating	IP65		
Altitude	5500 m		
Mechanical impact Protection	IK10		
Mounting	Wall or pedestal		
Optional	Display 4.3 inch LCD		



Slim Line
60kW Charger



Slim Line
80kW Charger



The Quench Slim Line DC Fast Charger (60kW / 80kW) is a sleek, space-efficient solution designed for modern EV infrastructure. It delivers rapid DC charging with high efficiency and stable operation across a wide voltage range.

Equipped with advanced safety protections, intelligent thermal management, and a durable design, the charger ensures reliable performance in demanding environments. With dual CCS2 connectors and dynamic power sharing, it supports flexible charging while maximizing station utilization.

Its compact footprint and smart connectivity make it ideal for urban locations, fleet depots, retail spaces, highways, and commercial parking areas.

TECHNICAL SPECIFICATIONS

Parameter	Slim Line 60kW charger	Slim Line 80kW charger
Configuration	60kW DC Fast charger with two CCS2 sockets	80kW DC Fast charger with two CCS2 sockets
Input AC Supply	Three Phase, 5 Wire AC Supply (3Ph. + N + PE)	Three Phase, 5 Wire AC Supply (3Ph. + N + PE)
Nominal Input Voltage	415VAC(+10%, -15%)	
Input Frequency	50Hz	
I/P Power requirement	70kVA, 125A	95kVA, 160A
No Load Power Consumption	<38W	
Energy Transfer Mode	Conductive	
Charging Mode	Mode 4	
Regulation	Controlled voltage charging (CVC) & controlled current charging (CCC)	
O/P Power	150 - 1000 VDC, DC Charging current up to 200A	
Operation mode	Simultaneous Charging: 30kW from each CCS2 Gun Dynamic load sharing: 60kW from one CCS2 Gun	"Simultaneous Charging: 40kW from each CCS2 Gun Dynamic load sharing: 80kW from one CCS2 Gun"

TECHNICAL SPECIFICATIONS

Parameter	Slim Line 60kW charger	Slim Line 80kW charger
Communication between EVSE and EV	Based on Power Line Communication (PLC) as per ISO 15118, with initial handshaking using Pulse Width Modulation (PWM) on the Control Pilot (CP) line as per IEC 61851-1.	
Rate of charging current	"Ramp up rate as per Section 101.2.1.3 of IEC61851-23 Ramp down rate as per Section 101.2.1.4 of IEC61851-23"	
Current Ripple	"Current ripple limit: <1.5A below 10Hz <6A below 5KHz <9A below 150KHz"	
Power Backup	Power backup of minimum 45 minutes.	
Electrical Protection	"Under voltage, Over voltage, Residual current, Surge Protection, Short circuit, Over temperature, Ground fault, Insulation fault, Emergency stop."	
Isolation	"Each DC output isolated from each other as per Section 7.5.101 of IEC61851-23."	
No of Outputs (cables + Socket)	2 Nos. CCS2 Gun Cables	
Charging Cable Length	5 m	
Display	10.1" LCD touch panel with 1024*600 pixels	
Visual Indicators	LEDs for each outlet indicating Gun Availability and Alarm status.	
Visual Information	Error indication, charge process indication, cabinet temperatures, transaction logs history, alarms history	
User Authentication	Autocharge , OTP, Remote Start, MIFARE, ISO/IEC14443A/B	
Metering information	"DC Meter (class 0.5) for output energy & AC Meter (class 0.5) for input supply energy"	"DC Meter (class 0.5) for output energy & AC Meter (class 1) for input supply energy"
Charging information	"Measurands available on Screen: • Vehicle plugged in/out status • Unit consumption-Output DC energy • Time to full charge • Duration since start of charge • Start & Current SOC" • Vehicle demand (current and Voltage) • DC Output: power, voltage and current	
Communication Protocol	OCPP 1.6 J	
Network connection	Wi-Fi, SIM, Ethernet	
Rated power efficiency	> 95% at Full load	
Power Factor	> 0.99 at full load	
THD	<5% @ Full-load output power of 50%-100%	
Operating Noise level	< 77dBA	< 65dBA
Operating Temperature	-5°C ~ +55°C (de-rating characteristics apply after 55 °C)	
Storage Temperature	-15°C ~ +70°C	
Cooling	"Forced air cooled while charging to prevent high temperatures inside the cabinet. Air Ventilated in idle condition."	
Humidity	< 95% relative humidity, non-condensing	
IP Rating	IP 54	
Altitude	2000m	
Emergency Push Button	Simple push button type switch, easily accessible, covered by acrylic	
Dimension (W x H x D)	(690mm x 1485mm x 303mm)	915mm x 1633mm x 466 mm—OVERALL

EV CHARGER

High-Performance EV chargers

The Q-Line range features 240kW and 400kW EV chargers that are capable of rapidly charging electric fleets. Designed for highly demanding environments, the design of the Q-Line incorporates enhanced thermal management capabilities and utilizes AC-DC converters specifically designed for high duty cycle use cases. The Quench Q-Line also includes sophisticated features such as Autocharge and Dynamic Load Balancing, ensuring maximum efficiency and reliability for fleet operators.

TECHNICAL SPECIFICATIONS

Parameter	Neo Smart 240kW	Neo Hulk 400kW
Input Power Requirement	"max 270kVA 415 VAC + 10% to -15% 3-Phase, 50 / 60 Hz, L1, L2, L3, N, PE"	"max 450kVA 415 VAC + 10% to -15% 3-Phase, 50 / 60 Hz, L1, L2, L3, N, PE"
Operation Mode	EVSE mode 4	
Number of Output/Charger	Two	
Output Power	"Up to 240KW Advance Dynamic Load Switching : 240/0; 200/40; 160/80; 120/120"	"Above 240kW Dynamic Load balancing 300/0,360/0,400/0,150/ 150;180/180;200/200"
Output Voltage	150-1000 VDC	
Output Current Per Gun	200A/250A/375A	250A/375A
Type of connectors	CCS 2	
Electrical Protections	Under voltage, Over voltage, Over current, Residual current, Surge protection, Short circuit, Over temperature, Insulation fault, Emergency stop.	
Isolation	Double insulation. Each DC output should be isolated from each other. (Section 7.5.101 of IEC61851-23)	
Charging Cable Length	5M	
Display	10.1 inch ; LCD touch panel	
User Authentication Method	RFID - Card reader complying to ISO/IEC14443A/B, FeliCa, MIFARE. Mobile Application and OTP , Auto Charge.	
Communication Protocol	OCPP 1.6 J	
Network connection	Wi-fi, Ethernet & GSM(3G/4G)	
Conversion Efficiency	≥ 95%	
Power Factor	0.99 at full load	
THDi	≤5% @output power above 50%	
Operating Noise level	< 65 dB	
Operating Temperature	-30 °C to +55 °C (de-rating characteristics apply after 55 °C)	
Storage Temperature	-40°C + 70 °C	
Humidity	< 95% relative humidity, non-condensing	
IP Rating	IP54	
Altitude	2000 m	
Emergency Push Button	1 Emergency Stop Button	
Standard	CE / Combo-2 / (DIN 70121; ISO15118) / IEC 61851-1; IEC 61851-23; IEC 61851-21-2; IEC62196-3	
Mechanical impact protection	IK10 (screen: IK 08)	
Dimension (W x H x D)	750 x 2020 x 1030 mm	1100 x 2000 x 850 mm

Neo Smart
240kW

Neo Hulk
400kW



Power Cabinet

Dispenser Charger



The Quench Power Cube + Dispenser EVSE is a scalable ultra-fast DC charging solution designed for high-power public charging hubs, highways, and fleet applications. Based on a centralized Power Cube architecture, the system dynamically distributes power to multiple dispensers, enabling efficient power utilization and supporting simultaneous charging of multiple EVs.

TECHNICAL SPECIFICATIONS

Parameter	Power Cabinet
Power rating	480KW
No. of PowerModule	12 modules
Input Voltage Range	415VAC , +/- 15 % (3Phase + N+ PE)
Input Frequency	50 Hz +/- 3%
Out put Voltage	150VDC-1000VDC
Input Current	240KW= with 2 independent AC supply cable, each cable 450A @ nominal Voltage
Power Factor	> 0.99 full load
Efficiency	>95%
Max. Out DC Current	250A/375A
DC Contactor Matrix	Spider-Web
Max. Number of Dispensers	6 Dispenser with Dual gun i.e total 12 Guns
Power module	12 nos (6 + 6) 40KW Power Module with In-built AC Power Relay
IP	IP54
Dimension H x W x D	1650 mm x 850 mm x 2000 mm
weight	825Kg Approx.
Protection	Over voltage, Under voltage, Surge protection, short circuit, Over Load protection, Earth leakage Current protection, Over Temperature.



Available in 240 kW, 360 kW, and 480 kW configurations, a single Power Cube can support up to 6 dispensers, in single- or dual-gun configurations, enabling flexible, scalable charging infrastructure. The system is also capable of handling high power demands from electric vehicles across heavy-duty fleets, including electric buses and EV trucks.

TECHNICAL SPECIFICATIONS

Parameter	Dispenser Charger
Connectors Type	CCS 2
No. of connectors	Dual/Single
Max. DC Current	250A/375A
Max. DC Voltage	150VDC to 1000VDC
Cable Length	5 m - 6 m (Optional)
Output Power	240KW/Gun
Input Power (Auxiliary)	230VAC
Network	Supports LAN/4G
Operating Temp.	-30 °C to +55 °C, 95% Humidity,
CMS Protocol	OCPP 1.6 J
Altitude	2000 Ft
Humidity	95% non-condensing
Operational Noise Level	< 65 dBA
Standards Compliance	IEC 61851, IS 17017
Display	10.1 "
Max Dist. between Power Cabinet and Dispenser	100 Meters
IP	IP55
Dimension H x W x D	1550 mm x 765 mm x 365 mm
weight	83 Kg Approx. (with Retractor)

Network Operations Center

Quench-NOC is a web application for monitoring and managing Quench charging stations remotely.

It monitors real-time heartbeat and error types.

Displays status on a dashboard

Provides early indication of the issue

Unmanned chargers can be remotely accessed, if necessary

The service efficiency is improved due to timely actions

taken due to real-time information

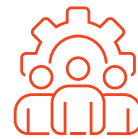
Q-NOC helps reduce downtime and optimizes the charger uptime



24/7 Remote monitoring capabilities



Real-Time diagnostics



Uptime Management



Support & Service Infrastructure

200 M
Charging
Sessions

5.8 TWh
Total Energy
Delivered



325 K
Charging
Sessions Daily

62
Countries with
Hyperchargers Installed

117 K
Charging Ports
Installed

Our Customers



QUENCH

DESIGNED FOR THE MOST EXTREME
CONDITIONS ON EARTH

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