



Introducing ENEEPL Make

DC FAST EV CHARGERS



Engineers & Engineers
(Electricals) Pvt. Ltd.
www.eneepl.com

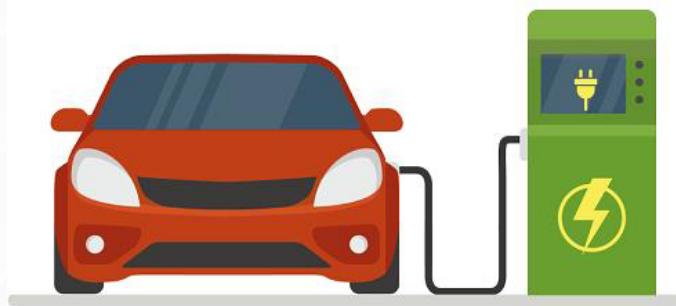


Faster, Safer, Smarter Charging for the Future of Transportation

Our state-of-the-art DC fast chargers are designed to meet the growing demand for rapid, reliable, and efficient electric vehicle charging. Whether for commercial use, public spaces, or high-traffic areas, our chargers provide a seamless experience for all electric vehicle users.

- **Power Options:** Available in 30kW, 60kW, 90kW and 120kW models with Single Gun and Double Gun and Double Gun with DLM to suit different charging needs.
- **Certified Performance:** Fully type-tested by ICAT to ensure compliance with the highest standards of safety and reliability.
- **Wide Compatibility:** Our chargers are compatible with all major electric vehicle models, providing flexible charging solutions across various platforms.
- **Fast Charging:** These chargers significantly reduce charging time, making them ideal for quick top-ups in busy locations.

With a user-friendly interface, real-time monitoring, and advanced safety features, our chargers are leading the way toward a cleaner and more sustainable future.





Power-Packed Features of ENEEPL make EV Chargers

Our DC fast chargers are designed to deliver efficient and reliable performance, offering a wide range of features to meet the needs of modern electric vehicle users:

Charging Power:

Available in Eight power levels:

- Single Gun 30 kW Wallbox with Pedestal: Compact, wall-mounted charger with pedestal option, ideal for commercial and residential use.
- 60 kW Single Gun: High-efficiency single-gun charger for fast charging of EVs.
- 90 kW Single Gun: Powerful single-gun charger designed for rapid EV charging.
- 120 kW Single Gun: Ultra-fast charging solution with a single output gun for heavy-duty EVs.
- 60 kW (30+30) Dual Gun: Dual-output charger with 30 kW per gun, allowing simultaneous charging of two vehicles.
- 60 kW (60+0, 0+60, 30+30) Dual Gun with DLM: Flexible dual-output charger with dynamic load management for efficient power distribution.
- 120 kW (60+60) Dual Gun: Dual 60 kW output guns for charging two EVs simultaneously at high speed.
- 120 kW (120+0, 0+120, 60+60) Dual Gun with DLM: Advanced dual-output charger with dynamic load management for versatile charging configurations.

ICAT Type-Tested:

Our chargers have been fully tested and certified by the International Centre for Automotive Technology (ICAT), ensuring they meet stringent safety and performance standards.

Wide Compatibility:

Compatible with most electric vehicles on the market, including cars, trucks, and two-wheelers. This flexibility makes them a perfect choice for mixed-use charging stations.



AC CHARGERS



OCPP BASED 3X3PIN SOCKET AC CHARGER

Product code: OCPP-33PIN-003

- 3 Output of 3.3KW
- 4 Line Character Display
- Wi-fi for Network Connection
- GSM option also available
- Inbuilt Metering
- LED Indication
- Over / Under Current & Over / Under Voltage Protection
- Earth-Fault Detection
- Push-Button Operation



OCPP BASED SINGLE OUTPUT 3PIN SOCKET AC CHARGER

Product code: OCPP-13PIN-001

- 3.3kW / 16A rating
- Wi-fi for Network Connection
- GSM option also available
- Inbuilt Metering
- LED Indication
- Over / Under Current & Over / Under Voltage Protection
- Earth-Fault Detection



OCPP BASED TYPE 2 SINGLE GUN 1PHASE / 3PHASE AC CHARGER

Product code: T2AC-01SG-001/003

- Single Phase 7.4KW, Three Phase 11KW & 22KW
- Type 2 Gun with 5m Cable
- 4 Line Character Display / 4.3Inch Display option
- Wi-fi for Network Connection
- GSM option also available
- Inbuilt Metering
- Over / Under Current & Over / Under Voltage Protection
- Earth-Fault Detection
- DC Leakage Protection



+91 94133 33412, 98283 36398



info@eneepl.com



www.eneepl.com



User-Friendly Interface:

Simple, intuitive touchscreen display with real-time charging data, allowing users to easily monitor the charging process. Designed for convenience with a 'plug-and-charge' functionality.

Advanced Safety Features:

- Over-voltage Protection: Prevents damage from electrical surges.
- Over-current Protection: Ensures the charging process does not overload the vehicle's battery.
- Thermal Management: Actively monitors and manages temperature to prevent overheating.

Durability & Weather Resistance:

Built to withstand extreme weather conditions, our chargers are suitable for both indoor and outdoor installations.

Smart Charging:

Integrates with smart charging networks and can be monitored remotely for real-time updates and diagnostics, reducing maintenance and operational downtime.





Our DC fast chargers are designed to efficiently convert grid power into the high-voltage DC power needed to charge electric vehicles quickly and safely. Below is a step-by-step breakdown of the working principle:

AC to DC Conversion:

The charger takes alternating current (AC) power from the grid and converts it into direct current (DC) power. Unlike slower AC chargers, which rely on the vehicle's onboard charger to convert AC to DC, our DC fast chargers bypass the onboard charger, directly supplying DC power to the EV battery. This drastically reduces the time it takes to charge the vehicle.

High-Voltage Power Delivery:

Our chargers are designed to deliver high-voltage DC power (typically 200-1000V), which allows for rapid charging of the EV battery. This is why DC fast chargers are ideal for scenarios where a quick charge is essential, such as on highways, commercial centers, or high-traffic locations.

Battery Communication:

During the charging process, the charger continuously communicates with the electric vehicle's battery management system (BMS). The BMS monitors the battery's state of charge (SOC) and adjusts the charging rate accordingly to optimize efficiency and ensure safety. As the battery reaches its maximum charge level, the charger automatically slows down the power delivery to prevent overcharging.

Temperature and Safety Control:

Our chargers are equipped with advanced temperature management systems. They monitor the heat generated during charging and automatically adjust the power flow to avoid overheating. This ensures that the charger operates within safe temperature limits, maintaining the longevity of both the charger and the EV's battery.





Safety Protections:

The charger is embedded with multiple safety mechanisms, including:

Over-voltage Protection: To safeguard the vehicle battery from power surges.

Over-current Protection: Prevents excessive current that could damage the battery.

Short-circuit Protection: In case of electrical faults, the charger cuts off power to avoid potential hazards.

Ground Fault Detection: Ensures that there are no electrical leakages that could compromise user safety.

Efficient Power Usage:

Our chargers are designed to be energy-efficient, minimizing losses during the conversion of AC to DC. This not only ensures a faster charge but also reduces overall energy consumption, making them environmentally friendly.

Auto-Stop Feature:

Once the battery is fully charged, the charger automatically stops supplying power, preventing overcharging and preserving battery health.





The Future of EV Charging: Powering Tomorrow's Transportation

As the world shifts toward sustainable energy, electric vehicles (EVs) are at the forefront of revolutionizing transportation. Our DC fast EV chargers are poised to play a key role in this transformation, with significant advancements on the horizon:

Faster Charging Times

As battery technology evolves, electric vehicles are becoming capable of handling higher power inputs. Our chargers are designed to scale with these advancements, providing even faster charging times in the future. We are continuously working on increasing the charging power beyond 120 kW to meet the demands of upcoming EV models that require ultra-fast charging.





Trend: Future vehicles will have larger battery capacities, and our chargers will evolve to accommodate higher voltage and current demands, drastically reducing charging times to as little as 20-30 minutes for a full charge.

Widespread Deployment

With the global push for greener energy, there is a growing need for fast charging infrastructure. Our chargers are ideal for installation at:

- Highways and Major Roads: Facilitating long-distance EV travel by allowing quick recharges at strategic points.
- Urban Centers: Serving the increasing number of city EV owners who rely on public charging stations.
- Commercial Spaces and Malls: Offering EV drivers a convenient charging option while they shop or dine.
- Residential Complexes: Meeting the rising demand for fast chargers in apartment complexes and housing societies.
- Future Vision: Governments and private sectors are investing heavily in EV infrastructure, meaning the number of charging stations will continue to expand rapidly, and our chargers will be at the center of this growth.

Sustainability and Environmental Impact

Our chargers are part of the global mission to reduce carbon emissions and combat climate change. By facilitating the adoption of electric vehicles, our chargers help decrease dependency on fossil fuels and lower greenhouse gas emissions.

Future Impact: As renewable energy sources become more prominent, charging networks will increasingly rely on clean energy, making electric transportation a truly sustainable option. Our future developments will focus on improving energy efficiency and reducing the environmental impact of every charge.

Contact Us:



+91 94133 33412, 98283 36398



www.eneepl.com



info@eneepl.com



G1-175, Mansarovar Industrial
Area, Jaipur, 302020 (Rajasthan)