



MegaCharge™ is your all-in-one mine charging solution for underground and surface charging of a Battery Electric vehicle (BEV). It is a multi-channel charging solution with Medium Voltage direct connectivity. It connects from 4.16KV to 13.8KV and is tailored for the underground mining operations.

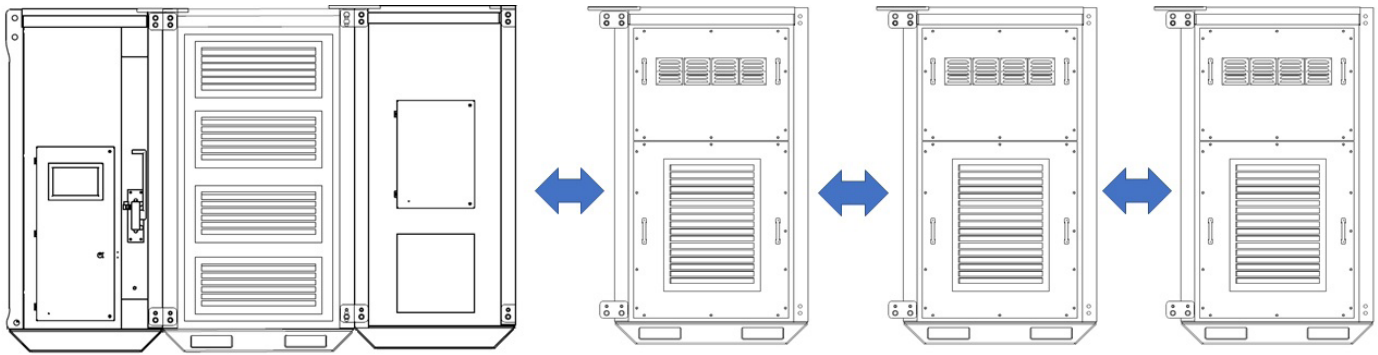
No additional infrastructure is required to provide power to the Charging station (self sufficient) which reduces the overall space required.

One MegaCharge™ can be used to charge 2 vehicles and up to 18 vehicles. MegaCharge™ is scalable meaning that the mine can start by purchasing only one charging section and add more to upgrade later.

The dispensers (up to 18) can be installed up to 150 meters away from the Charging station providing opportunities to charge vehicles on the different mine levels simultaneously.

The MegaCharge™ supports the mining electrification by facilitating the addition of electric vehicles and with the objective of a **zero emission** mine.

As per every Meglab product, MegaCharge™ is compliant with CSA standards which ensure the highest safety for workers. To accommodate the tough mining environment and working conditions, enhanced protection measures have been implemented.



SCALABLE

Our charging solution is scalable and supports up to three Charger Chambers. Each chamber hosts two charger power units offering up to 6 DC Rapid Charging channels by Chamber. The Charger Chambers can be added gradually according to the mines needs. A mine can start with one Charger Chamber and go up to 3 providing up to 18 DC rapid charging channels that can be installed at various locations most appropriate for the needs of the mine.

MODULAR

The MegaCharge™ can be transported underground using the mine's cage. The Power control Chamber and the Charging Chambers can be transported separately and then reassembled once they arrive at the work site.

HIGH COMPATIBILITY

It is compatible with most of the BEVs in the industry and allows the charging of BEV from different OEM simultaneously.

The MegaCharge™ supports CCS Combo 1 and CCS Combo 2. It also supports common industrial communication protocols, such as OCPP and Modbus.

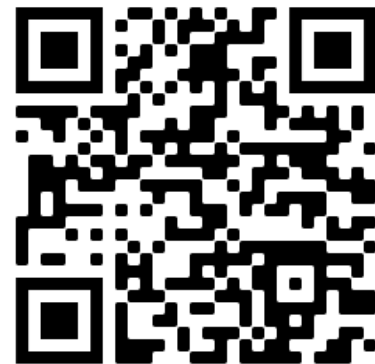
For monitoring from the surface, MegaCharge™ is compatible with all communication protocols to be easily integrated to SCADA/HMI system of the mine such as our IMAGINE™ system.

FEATURES

- MV Connectivity 4.16kV to 13.8kV
- Output: 150kW x 2 (4, 6)
- CCS 1 or CCS 2
- Modular, expandable design
- Additional Harmonics filtering options
- System level harmonics comply to IEEE519
- Supports WiFi, Fiber, Ethernet, and LTE communication
- Supports Modbus and OCPP protocols
- Supports Liquid cooled charging
- Charge box can be up to 150m apart from the Charging station

SCAN QR CODE TO SEE IT
IN AUGMENTED REALITY.

SCAN ME



Meglabs is specialized in electrical mining solutions and dedicated to suiting your technical requirements. Talk to a specialist today.

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