

CHARGE  
FAST.  
CHARGE  
SAFELY.  
CHARGE  
WHERE THE  
WORK IS.

A first of its kind for the mining industry, the Cat MEC500 Mobile Equipment Charger is a standalone fast charging system designed to charge quickly and safely wherever it's needed. It can be towed, dragged or fork-lifted — eliminating the need for regular battery handling and swapping. And it can fully charge the Cat® R1700 XE LHD in less than 30 minutes, or in 20 minutes when used in tandem.

R1700 XE  
CHARGING STATION

## OPTIMIZED CHARGING

The MEC500 is designed to charge quickly, with high power output (300-1,000 volts) and the ability to be used alone or in tandem for optimized charging. The charger boosts voltage to accommodate variable input voltages and offers an adjustable output current that can be used to trickle the charge. The MEC500 is capable of charging 500 kW (670 HP).

## PORTABLE AND EASY TO USE

The MEC500 can be towed or forklifted and is available with an optional skid mount and lift eyes. It connects wherever there is mine power, and two units can charge in parallel with a single transformer. The charger features an easy, one-button start, and charging can be done by a single worker.

## SAFETY-FOCUSED

The portable MEC500 quickly and easily charges batteries onboard the machine, so there is no need to handle or exchange them. The charger is equipped with multiple safety protocols with ground fault monitoring, continually regulating and protecting during the charging process.

## RUGGED AND MINE-READY

The MEC500 charger is designed for challenging conditions like those found in underground mines.

- + Sealed against humidity with enclosed air conditioning
- + ISO2867 rock fall protected
- + IP66 rated for water and dust
- + Key components iso-mounted against vibration and seismic activity
- + Stainless steel flexible conduit protects against access to conductors
- + Ground fault monitoring on input from transformer and output to connector
- + Inverter features reliable Cat Microgrid power control

© 2022 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

