



LOAD AND HAUL MOBILE CHARGING STATION



RETHINK THE EQUIPMENT KEEP THE SAME MINE

The future of underground mining is electric and battery powered. On this new path, we rethink the machines so that you can keep the same mine.

Fastest pitstop on the market with AutoSwap

Sandvik offers you the fastest fueling pit stop on the market for battery electric equipment: in Sandvik loaders and trucks, swapping batteries is done without any major infrastructure such as overhead cranes or forklifts, and in just a couple of minutes. When the time for battery change is at hand, the operator drives to the battery swapping bay, lowers the depleted battery, picks up a full battery, and continues operation. Thanks to the AutoSwap and AutoConnect functions, all of this is done without leaving the equipment cabin.

Recharge your batteries at the mobile charging station

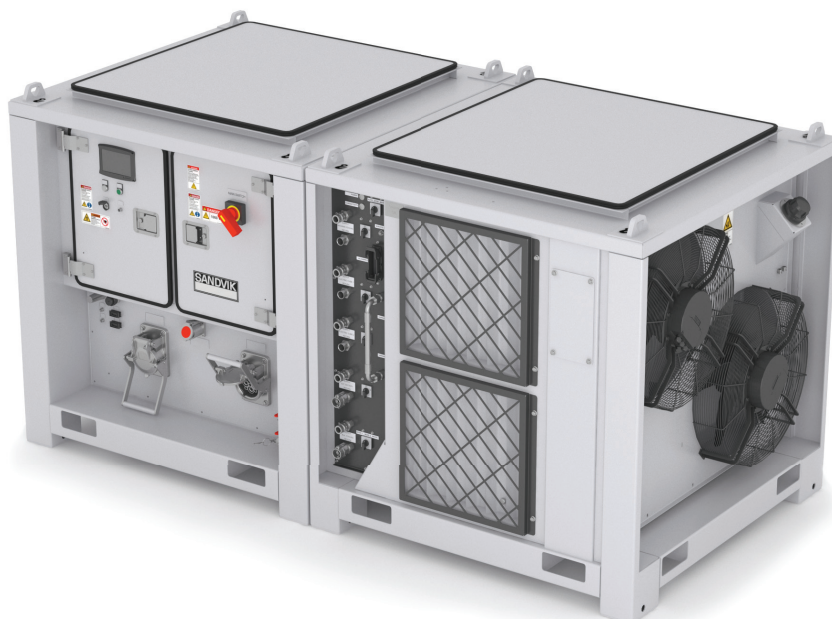
For charging the BEV equipment's depleted batteries, Sandvik's mobile charging station and a connection to the mine electric grid is all you need. The mobile charging station consists of charging and cooling units, that form a functional pair: mobile charging unit and mobile cooling unit. For maximum flexibility, the same station can be used for charging any Sandvik branded BEV loader or truck. The mobile cooling unit uses low electrical conductivity coolant for increased battery safety.

Get organized: stack in piles or line up

The units are all the same size, contributing to flexible and organized positioning of the mobile charging station. The units can be placed next to each other on the ground and locked together with a special bar. To save ground space, they can also be stacked, one on top of the other.

Easy relocation and handling

The charging units and cooling units are easy to relocate with a forklift. The recommended lifting directions are from the front to the back. Additionally, the units include side pockets for easy handling with forklift, which are especially useful when turning and adjusting the unit locations. Additionally, hoisting brackets are included in each corner of the units.



TECHNICAL SPECIFICATION

MOBILE CHARGING STATION

MOBILE COOLING UNIT

Enclosure dimensions	L: 1550 mm W: 1550 mm H: 1600 mm
Weight	1100 kg
Operating temperature and relative humidity	+10 - +40 °C, 100%
Refrigerant	R134a
Amount of refrigerant	16 kg
Input voltage	400 VAC (50 and 60 Hz)
Electric input power	43.6 kVA
Liquid cooling power	60 kW
Thermal load to environment	Up to 104 kW
Coolant	Low electrical conductivity coolant (40% raw ethylene glycol, 60% distilled water). Other mixture ratios can be used, but it will affect cooling capacity.
Coolant volume	60 l (50 l tank + 10 l internal system)
Ingress protection	IP54

MOBILE CHARGING UNIT

Enclosure dimensions	L: 1550 mm W: 1550 mm H: 1600 mm
Weight	2100 kg
Operating temperature and relative humidity	+10 - +40 °C, 100%
Input voltage (50 and 60 Hz)	480/600/1000 VAC
Electric input power	400 kVA*
Charging power	320 kW
Output voltage	Min. 480 VDC Max. 850 VDC Full power 500..750 VDC
Ingress protection	IP54

*with current battery pack maximum input power 245kVA per charging unit

The standard mobile charging station consists of:

- 2 pieces mobile charging unit
- 1 piece mobile cooling unit



