



AMPCONTROL
MEGAWATT
CHARGER

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PRODUCT BROCHURE

ELECTRIFYING MINING

The next advancement in mine site electrification the Ampcontrol MegaWatt Charger is a dual-mode charger capable of charging at up to powers of one megawatt. Minimising charging time and its operational impact.

Consisting of a hybrid power electronic stack capable of delivering up to 500kW through a standard electric vehicle CCS2.0 plug, and up to 1MW through the RADOX MCS1500 plug.

The Ampcontrol MegaWatt Charger can include an isolation transformer to achieve galvanic isolation and be truly standalone.

With dual-mode charging the Ampcontrol MegaWatt Charger can charge multiple vehicle types and sizes. With the option for CCS, MCS and mining restrained receptacle plugs, you have a single unit that can charge both light and heavy vehicles and equipment.

AMPCONTROL MEGAWATT CHARGER FEATURES

- Ultra fast charging
- Liquid cooled with integral air-to-liquid exchanger
- Safe and biodegradable dielectric coolant
- Both CCS and MCS charging plug options
- Can charge Ampcontrol DRIFTEX from flat to full in 10 minutes
- Includes Ampcontrol Arc Vent solution
- EMC Compliant - Category 4 compliant to EN 61800-3:2004, EMC Directive 2004/108/EC



MEGAWATT CHARGING

Megawatt charging is the key to large scale decarbonisation given that charge time has been a key barrier to wider acceptance of battery vehicles within the mining industry.

The Ampcontrol MegaWatt Charger reduces the operational impact of long charge times and enables sites to utilise large-scale battery technology.

RADOX MCS1500



ELECTRICAL SPECIFICATION

Item	Data
AC supply voltage	450-11000VAC
Rated AC supply frequency	48-63 Hz
AC supply isolation	Galvanic isolation achieved with transformer (IT)
Max. DC charge current	1000A
DC charging voltage range	200 - 1200VDC, higher voltages and current on request
DC Max. charge power	1MW+
Operating temperature	10°C to +60°C, derating output current by 15% per 10°C over 40°C.
EMC compliance	Category 4 compliant to EN 61800-3:2004, EMC Directive 2004/108/EC
Charging connector	CCS2 (500A), MCS (1000A+), DriftEx Quick Release Receptacle (1000A)
Charging communication protocol	IEC 61851-1 and IEC 15118
Charging station management protocol	OCPP via ethernet

MECHANICAL SPECIFICATION

Item	Data
Dimensions	3050mm x 1800mm x 1800mm
Weight	5000kg
Ingress protection	IP65
Cooling style	Liquid cooled with integral air-to-liquid exchanger
Cooling load	50kW, with Standalone chiller unit available





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