MINE TRACK & TOOLS (PTY LTD)

MINDS OF STEEL WITH HEARTS OF GOLD

Lithium Locomotive Battery Pack

Designed as a direct replacement for existing 800 Ah Lead Acid Locomotive Batteries.

Safety

Safety is at the core of the design. The Lithium cells were chosen for their stability. The cells are housed in a separate compartment with a small air volume surrounding them. An automated fire suppression system designed for lithium cell chemistry is housed inside the battery compartment. A separate electrical compartment houses the BMS, fuses, contactors and switches. The electrical compartment also houses an automated fire suppression system.

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Onboard/Offboard Charger TC22

The 22kW charger is designed as a separate removable module. The charger can be used “onboard” or “offboard” in the haulage, according to customer requirements. The modular nature of the charger makes it easy to replace in the field.

Low Profile

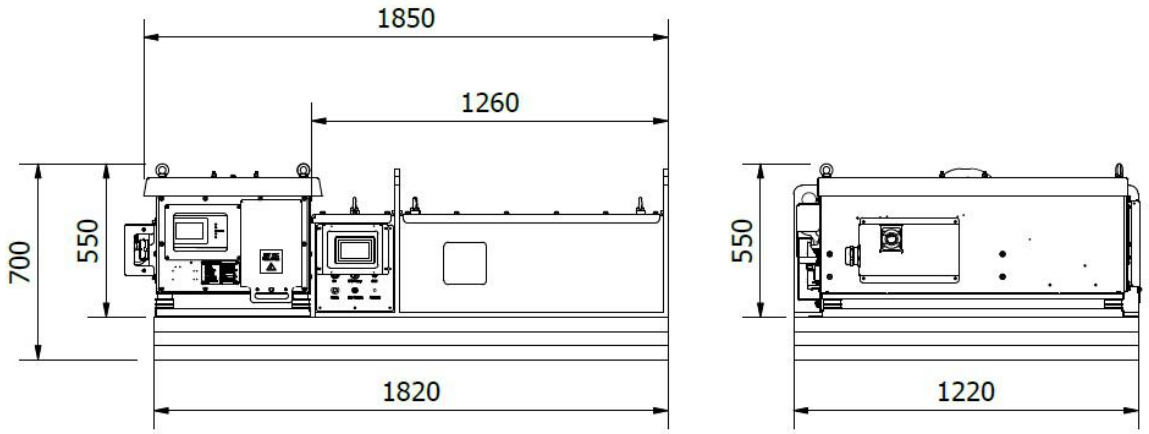
The Battery Pack is a mere 700mm high. This low profile ensures that the driver has a better view.

Low Centre of Gravity

The ballast weight is added at the bottom of the Battery Pack. This serves to lower the centre of gravity. This will result in a more stable locomotive.

Central Lifting Point

A central lifting point is provided for ease and safety of lifting. There is no need for a sling.



Specifications:

Part Number:	CGH111 / CGH112
Battery Nominal Voltage :	121.6 VDC / 86.4 VDC
Battery Capacity:	51 kWh / 54 kWh
Charger Power Output:	22 kW
Battery Charge Time:	3 h
Charger AC Input:	525 VAC (500-550)
Battery Type:	Lithium Phosphate
IP Rating:	55
Gross Weight:	4.3 Tons (including charger, ballast and battery)

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