

Idle Management System (IMS)

 **FLANDERS**

 **EKU**
POWER DRIVES

Manufactured by Eku, Distributed by FLANDERS



PIONEERING HAUL TRUCK DECARBONIZATION

Immediate Impact with Scalable Retrofit Solutions



Lower Maintenance Cost

Reduces the number of service intervals per year thus lowering annual maintenance costs.



Save Up to 8% on Fuel

Optimize fuel efficiency during mining operations by minimizing idle time.



Reduce Emissions

Immediately avoids unnecessary emissions and facilitates CO² reduction tracking.



Equipment Lifetime Extension

Running less engine hours per year leads to longer lifetime of the engine & all related components.



Improve Productivity

Optimizes operations with advanced technology, mitigates issues like cold starts, and enhances overall equipment utilization. Delays maintenance and rebuilds, increasing available time.



Adaptability and Cost-Effectiveness

Seamlessly retrofits to any haul truck, ensuring a cost-effective, versatile solution regardless of the original equipment manufacturer.



OUR PRODUCT

Engineered for universal fit, our retrofit solution upgrades electric and mechanical drive haul trucks. It integrates fluid circulation and heating, reducing idle time and boosting powertrain performance. Tailored for diverse truck payloads, it elevates efficiency in any Mining application.



Save up to
200,000 USD*
each year by each truck

1,682
engine hours reduced

830
liters of engine oil saved

50,963
liters of Diesel saved

171
metric tons of CO² saved

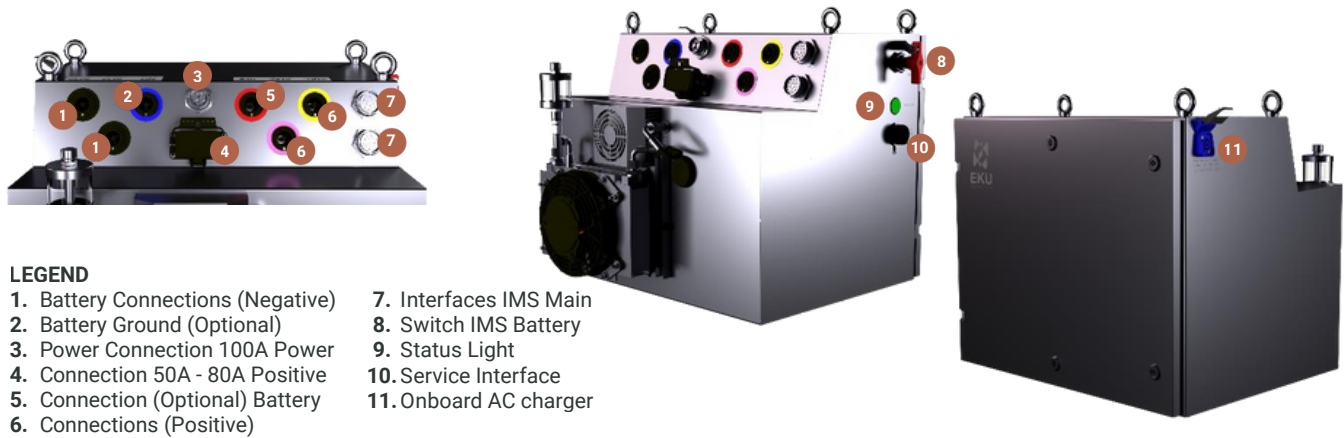
*Based on a year-long performance of a single 200t Haul Truck with 35% idle time.



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CONNECTIONS



LEGEND

1. Battery Connections (Negative)

2. Battery Ground (Optional)

3. Power Connection 100A Power

4. Connection 50A - 80A Positive

5. Connection (Optional) Battery

6. Connections (Positive)
7. Interfaces IMS Main

8. Switch IMS Battery

9. Status Light

10. Service Interface

11. Onboard AC charger

FEATURES

- **Automated Engine Management:** Seamlessly automates the engine cranking process, ensuring instant restart without any driver intervention for optimal adoption.

• **Efficient Idle Reduction:** Significantly reduces idle time for diesel engines, effective for those up to 100-liter displacement

• **Ready State Maintenance:** Keeps the engine lubricated and conditioned, also while maintaining cabin HVAC for constant readiness.

• **Comprehensive Power Supply:** Serves as the main power source for all components, including accessories.

• **Smart Charging System:** Features an integrated alternator control for automated battery charging, supplemented by a redundancy switchover box for enhanced safety.

• **Advanced Battery Technology:** Utilizes Lithium-Ion battery technology with automated thermal management.

• **IMS Connectivity:** Provides robust access capabilities for seamless system integration and control.

• **Smart Monitoring:** Enables review of KPIs, tracks fuel and maintenance savings, and monitors emission reductions.

• **Flexible Integration:** Supports integration with existing systems using CAN and/or ethernet communication.

• **24/7 Support:** Provides round-the-clock support and service portals.

• **Asset Retrofitting:** Can be retrofitted to existing assets for extended functionality and efficiency. Ready to work on a dual battery system with the battery Switchover Box.

• **Environmental Resistance:** Rated IP65, offering robust defense against dust and water ingress.
- SPECIFICATIONS
- | General specifications | Value |
|------------------------------|------------------------------------|
| Continuous power output | 8 kW |
| Short power output (10s) | 30kW |
| Nominal voltage | 25.6 V |
| Energy | 6 kWh (Li-Ion) |
| Ambient temperature range | -30 °C to 55 °C (-22 °F to 131 °F) |
| Storage temperature range IP | -40 °C to 60 °C (-40 °F to 140 °F) |
| Rating | IP65 |
- DIMENSIONS AND MASS
- | Assembled | | |
|--------------|----------|---------|
| Height Width | 500m m | 20 in |
| Length | 604,5 mm | 24 in |
| Mass | 622 mm | 24.5 in |
| | 122 kg | 269 lbs |
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