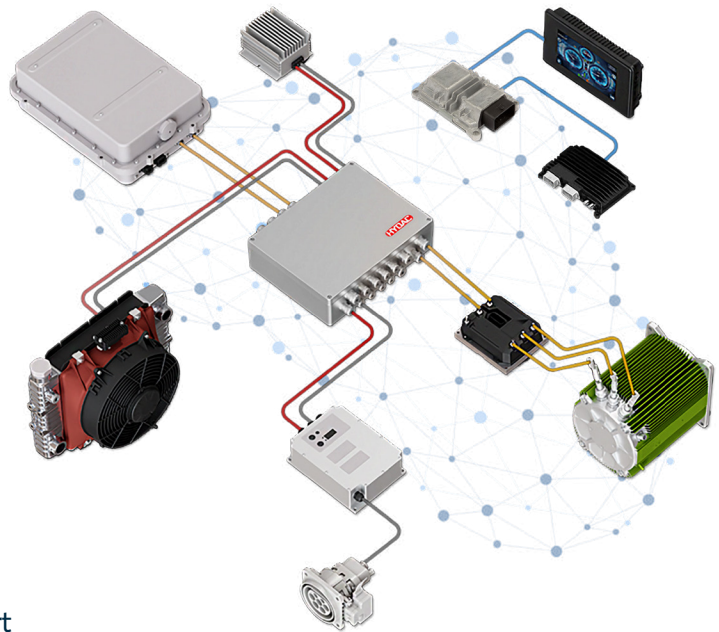


HYDAC

HYDAC eKit48: Low Voltage Mobile Electrification

Electrification processes often demand significant time and resources despite the need to swiftly implement innovative solutions to keep up with progress in environmental protection and emission-free technologies. HYDAC's revolutionary 48 V system eKit48 helps mobile OEMs create electrified machines faster and simpler. This system features pre-validated modules for custom configuration, easily integrating into existing architectures with intelligent configuration strategies. The eKit48 offers a comprehensive, innovative package that simplifies the transition from conventional combustion engines to electrified machinery, ensuring quick implementation, emission-free technologies, and enhanced system efficiency.

- Simple and user-friendly operation
- No training needed
- Maximum flexibility with a standardized, modular design
- Easily adapts and integrates into any system architecture
- Readily available and highly compatible components
- All components developed and produced in-house at HYDAC and HYDAC subsidiaries and partners, including Engiro, Invenox, and TTControl
- Concentrated know-how and dedicated support



800-569-9801 • info@evolutionmotion.com
evolutionmotion.com/hydac-ekit48-low-voltage-mobile-electrification



eKit48 Modules

Charging Management

- Preconfigured modules align with the Low Voltage Directive and EMC guidelines
- Covers power ranges from 1.5 to 12 kW
- Compatible with supply voltages from 100 to 240 Vac
- Ensures safe and efficient charging processes

LIOS 48 Battery Systems

- Innovative and intelligent battery systems from the Invenox Division
- Patented contact technology to clamp cells between aluminum PCBs
- Vibration-resistant contact via elastic and highly conductive materials
- Dual-level monitoring for maximum failure protection
- Easily replaceable batteries and recyclable modules

Software

- MATCH control software from the TT Control Division
- Certified and tested function modules for custom combinations to ensure quick and safe implementation
- Offer 12 or 24 V interfaces for customization and reliable system communication

Drive Sets

- Turnkey drive sets from the Engiro Division ready for immediate use
- Motor, coordinated converter, and matching cable harness
- Suited high speeds and torques as well as various flange and shaft types

Controllers

- Robustly designed controllers for smooth and efficient operation in harsh conditions
- Numerous safety certificates and up to seven CAN bus connections
- Maximum flexibility and code reusability across all products

Mobile, Variable-Speed Air Coolers

- Provides needs-based cooling for electric motors and inverters with minimal energy loss
- Compact, variable-speed design
- Reduce noise and vibrations via cooling

Power Distribution Unit

- Distributes energy safely and efficiently
- Designed to match the dimensions of other kit elements
- Provides optimum power distribution with standard or customized harnesses

