

METROBIT

Since 2002

CRANE POWER BOOST

PRODUCT CATALOG



ABOUT METROBIT

Metrobit Group, headquartered in Canada, operates in MEA under Metrobit FZCO in Dubai's Jebel Ali Free Zone which is a manufacturing and solutions hub dedicated to mission-critical power and energy infrastructure. With over two decades of industry experience, we specialize in developing high-performance DC power systems, EV chargers, battery energy storage systems, and integrated monitoring platforms.

WHY CLIENTS TRUST METROBIT

Metrobit powers the clean transition in mobility and energy infrastructure through reliable, locally-engineered, and performance-driven technologies.

01

20+ years of engineering excellence

02

Full in-house design and production

03

Trusted by industry leaders such as Ericsson, Etisalat, and STC across the Middle East

04

Middle East manufacturing advantage



CRANE POWER BOOST SERIES OVERVIEW

Crane Power Boost is Metrobit's high-performance peak power deployment solution engineered to eliminate or dramatically reduce generator dependency at construction and heavy industrial sites. Designed for Europe, Middle Eastern and African operating conditions, it delivers instant high-power output during peak demand while maintaining stability, efficiency, and energy independence.

This modular battery-powered system acts as a bridge between grid or generator, and equipment. It intelligently shaves peak loads, reduces fuel consumption, and enables smooth operation of cranes, hoists, welding machines, and other high-torque equipment without voltage drops or power interruptions.

Built with state of art and high quality industrial-grade hardware, long-life high-temperature batteries, and plug-and-play deployment flexibility, Crane Power Boost ensures operational continuity, lower OPEX, and compliance with evolving sustainability and emission standards.



B1-MINI SERIES (80 KW)

Compact peak power solution for light-to-medium crane towers in construction sites or industrial equipment.

A compact, mobile-ready peak shaving system engineered for tower cranes, passenger hoists, welding stations, and temporary site cabins.

Delivers instant high current during heavy loads without needing a large diesel generator.

Ideal for urban sites with power constraints or noise-sensitive zones.

KEY FEATURES:

- Eliminates need for large diesel gensets
- Ultra-fast response to peak loads
- Plug-and-play with 16A–32A input
- Built for harsh climate durability
- Stackable
- Compact footprint for mobile deployment

Output Power: 80 kW

Nominal Voltage: 400 V 3Ph+N

Battery Capacity: 40.8 kWh (AGM High Temp)

Ingress Protection: IP55 rating



B1-L SERIES

High-torque optimized model for heavy vertical lifting equipment.

Optimized for high-torque, high-current surge operations, the B1-L is purpose-built for heavy-duty crane applications, passenger hoists, and steel machinery where current spikes are extreme and stability is mandatory.

Compact and rugged — ideal for vertical logistics environments.

KEY FEATURES:

- Pure high-torque performance tuning
- Instant current delivery — zero lag
- Ideal for passenger safety & steel machinery
- Compact but high-density output
- Minimal site modification required

Output Power: 160 kW

Battery Capacity: 81.6 kWh

Nominal Voltage: 400 V 3Ph+N

Ingress Protection: IP55



B1-V SERIES (100–200 KW)

High-power battery boost system for medium crane & hoist operations.

A scalable peak power solution engineered for demanding crane, hoist, and construction equipment operations.

Provides short-term high current bursts without upsizing generators — lowering diesel, noise, and emissions.

Ideal for contractors optimizing cost and performance in high-load cycles.

KEY FEATURES:

- Reduces generator size & fuel cost
- Handles intense peak load surges
- Seamless grid/diesel hybrid operation
- Modular inverter up to 200 kW
- Designed for GCC & Africa temperature zones

Output Power: 100 kW–200 kW

Nominal Voltage: 400 V 3Ph+N

Battery Capacity: 69.36 kWh (AGM High Temp)

Ingress Protection: IP55



B2-V SERIES (100–200 KW)

High-capacity version for longer peak duration & off-grid autonomy.

An enhanced storage variant of the B1-V, engineered for operations requiring longer power autonomy or frequent heavy-load cycles.

Doubles usable battery capacity while maintaining the same scalable power delivery, making it ideal for semi-off-grid or unstable grid locations.

KEY FEATURES:

- Extended runtime vs B1-V Series
- Ideal for unstable grid / remote projects
- Handles crane + auxiliary load combinations
- Plug-and-play via existing diesel infrastructure
- Extreme temperature-rated components

Output Power: 100 kW–200 kW

Battery Capacity: 163.2 kWh

Nominal Voltage: 400 V 3Ph+N

Ingress Protection: IP55



B2-H SERIES (360 KW)

High-performance energy storage for heavy-duty peak shaving and industrial applications.

Built for high-demand operations, the B2-H delivers maximum power output with extended battery capacity, reducing diesel generator dependency while ensuring reliable, uninterrupted energy for mission-critical equipment.

Designed to handle continuous heavy loads, the B2-H improves fuel efficiency, lowers operating costs, and provides dependable backup power for large-scale construction and industrial sites.

KEY FEATURES:

- High-capacity 163.2 kWh battery storage
- 360 kW continuous power output
- Optimized for heavy-load industrial applications
- Reduces diesel fuel consumption and emissions
- Plug-and-play integration with existing power infrastructure
- Built with high-temperature-rated components
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Output Power: 360 kW

Battery Capacity: 163.2 kWh

Nominal Voltage: 400 V 3Ph + N

Ingress Protection: IP65





We are ready to assist you

Whether you're electrifying a fleet, launching public EV stations, or supporting clean energy goals, we're here to **power your mission.**

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