



VANAIR®

A Lincoln Electric Company

ONE Supplier.
Warranty.
Solution.

Vanair's EPEQ® Advanced Energy Systems for RVs

deliver a single, integrated source supplier for the OEM, backed by more than a century of mobile power expertise.



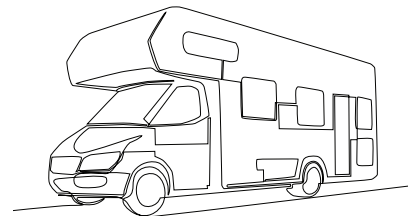
The real change

is how energy is stored, converted, and managed.



RV CUSTOMERS WANT A COACH THAT'S JUST AS MUCH RESIDENTIAL AS IT IS RECREATIONAL

If you ask an RV buyer what they want from a new coach, their answer has changed. Now they look for larger lithium battery banks, induction cook tops, and more residential features. The convenience of running household electrical loads at night without needing to start up the refrigeration system. They want off-grid operation in national parks and campgrounds where generator use is restricted or simply unwelcome.



For manufacturers, this is not just a trend. It is a reality. The question is not whether coaches need better energy systems; it's which supplier can provide a system that installs easily, performs in the field, and remains reliable throughout the life of the unit. The answer is Vanair's EPEQ® Advanced Energy Systems.

POWER STORED AND AT THE READY

Power generation is still the foundation. Whether the energy comes from a generator, alternator, shore power, or solar panels, the coach still needs a way to produce it. The real change is in how that energy is stored, converted, and managed.

This is where Vanair's EPEQ® Electrified Power Equipment® makes a difference.

It is an integrated energy system that works with any power source your platform already uses, storing energy efficiently, converting it cleanly, and giving the owner much more usable power between starts.



For buyers, this means **quieter operation** and **less vibration** through the chassis, plus more actual off-grid operating time, even when nothing is running.



ENGINEERED AROUND RV HOUSE LOADS

EPEQ® focuses on where a coach spends its energy: AC power, while still delivering the DC loads it needs. From laptops and CPAP devices to induction cook tops and residential refrigeration, EPEQ® pure sine wave inverters deliver the clean power premium coaches need. Every inverter in the line is UL 458 certified, the standard written specifically for inverters in mobile applications.

INVERTER3600 | 3.6kW | 120VAC

INVERTER5000 | 5kW | 240VAC | Stackable to 10kW

INVERTER6000 | 6kW | 120/240VAC | Low-frequency design with 300% surge capability



EPEQ® Solar Assist™

RVs draw power even when parked. GPS, security systems, and onboard electronics deplete batteries quietly between trips. Solar Assist is a patented flexible solar system that tends and supplements the battery bank on both 12V and 48V platforms.

Solar Assist™ maintains a higher state of charge, extending typical battery life from roughly 18 months to three or four years. MPPT (UL 1741) charging harvests up to 45% more usable energy than PWM controllers, and the shade-resilient mesh grid design, with more than 2,100 conductive pathways, adds up to 20% more real-world production. The panels are 1/8-inch thick, frameless, and conform to curved surfaces without traditional mounting hardware.

EPEQ® Smart Display

A single interface that displays battery state of charge, inverter status, solar input, and system diagnostics on one easy-to-read screen.





ELiMENT® 48V Lithium Iron Phosphate Batteries (LiFePO4)

ELiMENT® batteries are the foundation of our system. Lithium iron phosphate chemistry is the standard for vehicle-mounted applications because of its thermal stability, cycle life, and safety characteristics.

- UL 1973, IP67 rated, sealed against dust and temporary water immersion
- RV-C CAN communication
- Dedicated solar port built into the battery
- Simultaneous charging and discharging
- Individual cell monitoring through the integrated BMS
- Sealed quick-connect plugs
- Charging through shore power or a 12V-to-48V DC to DC converter

Because no special venting is required, enclosed compartments, underbody mounting and van-style builds are all installation options.



5kW



7kW

BUILT FOR THE RV LIFE

Products designed for residential or consumer use are not built for constant vibration, temperature swings, and the duty cycles of a vehicle in motion. Vanair® has spent over 50 years building mobile power systems for military, mining, oil and gas, and utility applications. Our mobile power units operate from -40°F to 120°F, and failure is not an option. With its compact footprints, quick-connect interfaces, and a unified control architecture, Vanair® brings that engineering to RV platforms.

PLUG-AND-PLAY BY DESIGN

We've replaced butt splices and field-cut wiring with sealed quick-connect plugs for repeatable installations during production, fewer connection-related failures in the field, and a straightforward path for dealer service.

The architecture also supports load-transfer technologies and supporting modules, allowing 12V systems and existing platform components to integrate rather than compete.

ONE SUPPLIER FOR THE ENTIRE ENERGY SYSTEM

Instead of sourcing batteries from one vendor, inverters from another, and connectors from a third, RV manufacturers can now work with a single provider.

- One supplier relationship
- One warranty process
- One technical support resource
- Verified compatibility across every major component
- Engineering support to configure the right system for each platform



SUPPORT THAT SHOWS UP

Vanair® backs OEM partnerships with a North American service network built over five decades.

Our service network includes:

- Weekly and monthly factory audits
- Local just-in-time delivery
- Dealer service network and training
- Technical documentation and parts availability



Stability Behind the Commitment

Vanair® has built Mobile Power Solutions® since 1972. Now as part of Lincoln Electric, that expertise carries the financial strength, manufacturing capacity, and global supply chain of a publicly traded industrial manufacturer. Procurement teams can rely on decades of trust from both companies to build reliable, long-term supplier relationships.

Vanair®, a Lincoln Electric Company. Mobile Power Solutions® built for today's RV buyer.

ONE

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