

The power of silence.™



Protonex
M250-B



Quiet, clean power for RV enthusiasts

Protonex ushers in a new era of outdoor enjoyment for RV enthusiasts. Packed with power—but without the noise, odor, vibration and expansive carbon footprint associated with conventional generators—the Protonex M250-B system delivers quiet power for your outdoor adventures.

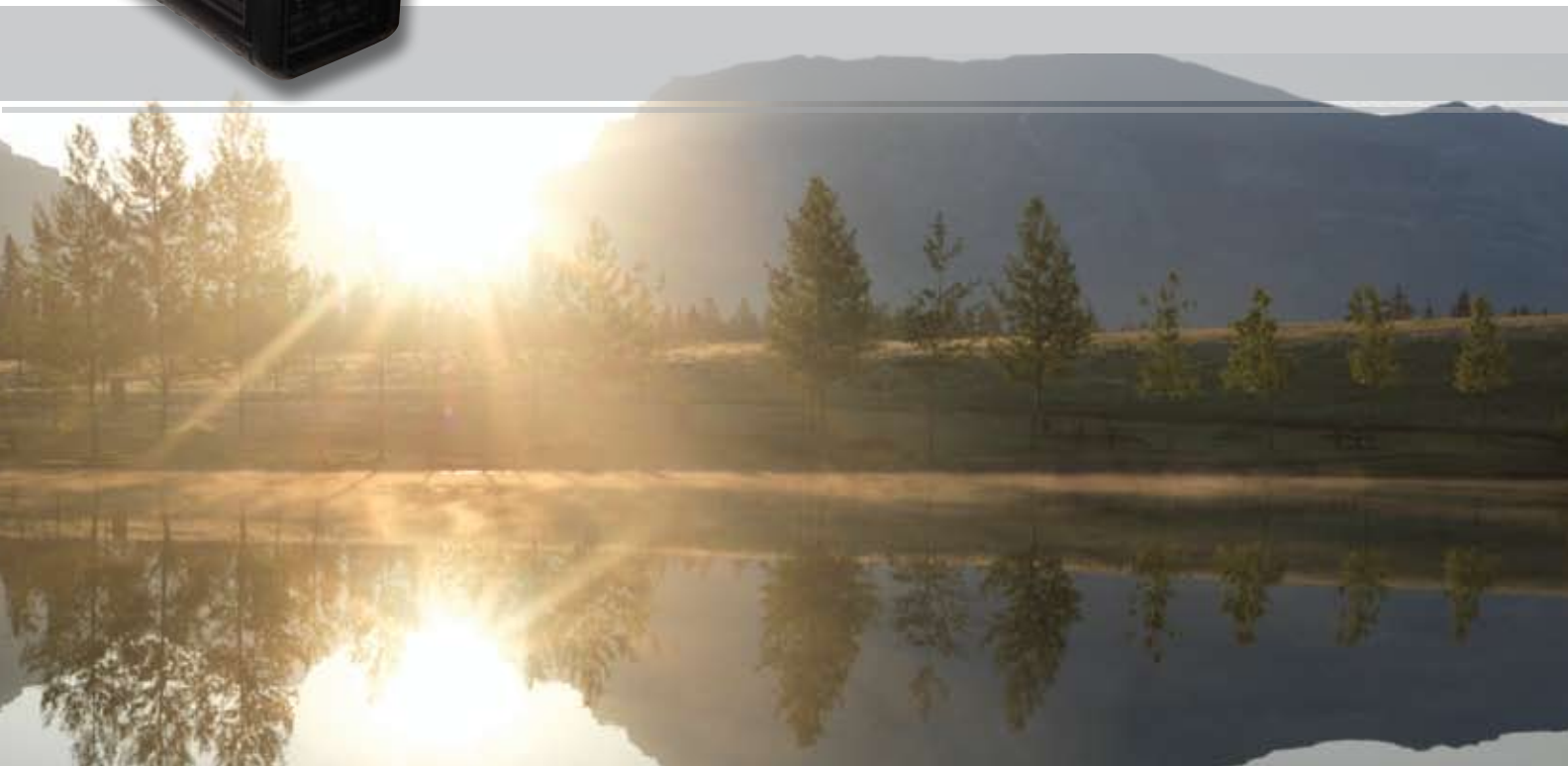
Why be disturbed by a traditional generator or the limited capability offered by battery-based systems? A Protonex fuel cell power system delivers robust, “green” power—clean energy from biodegradable methanol fuel. By leveraging our breakthrough advances in fuel cell

and hybrid technology, we’ve created an alternative power system for your RV that runs efficiently, silently and reliably. With the Protonex M250-B, there’s nothing to interfere with your enjoyment of the great outdoors.

The Protonex M250-B system easily installs into your RV, connecting directly to your existing power system. User-friendly set-and-forget operation continuously monitors and automatically recharges your batteries so you have all the power you need, when you need it. Plus, the noise and vibration-free operation means you can ignore generator curfews and enjoy modern electrical conveniences, day and night.

THE PROTONEX M250-B ADVANTAGE

- Offers silent operation
- Provides freedom from generator curfews
- Allows independence from shore power hook-ups
- Removes unwanted vibrations
- Eliminates main engine idling
- Uses safe, clean, biodegradable methanol fuel
- Provides odor-free operation
- Reduces your carbon footprint and emissions





Environmentally responsible RVing

OUR REVOLUTIONARY FUEL CELL HYBRID POWER SYSTEM BENEFITS OUTDOOR ENTHUSIASTS

Silent, vibration-free operation

You can enjoy power whenever you want it, even during quiet time, thanks to our silent, vibration-free power system.

Practically no emissions

Fuel is converted directly to electrical energy, eliminating unpleasant odors associated with traditional generators.

Greater efficiency

A Protonex M250-B hybrid power system always operates at its optimum efficiency, significantly lowering fuel consumption and carbon footprint.

Clean fuel

Decrease your dependence on oil-based fuels with an environmentally friendly fuel—our system runs on clean, biodegradable methanol.

ABOUT CONVENTIONAL HYBRID POWER

Conventional hybrid power systems blend the advantages of a power-generating source—typically a gasoline or diesel generator—with batteries to provide power with high efficiency. The Toyota Prius® is one example.

ABOUT FUEL CELL HYBRID POWER

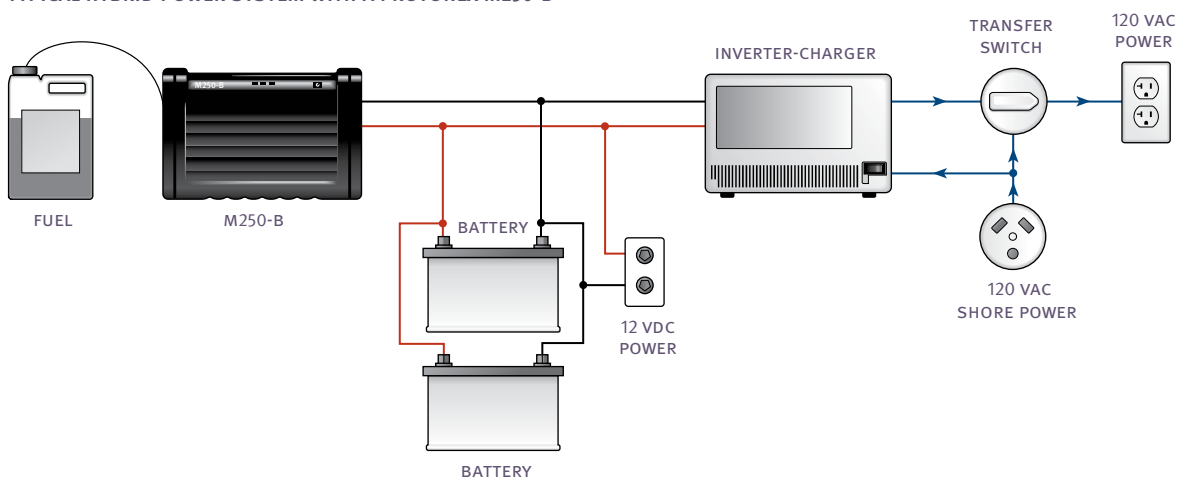
Protonex' revolutionary fuel cell hybrid power system takes this idea a step further by combining a fuel cell power generator with conventional hybrid batteries, eliminating the many disadvantages associated with gasoline or diesel generators.

PROTONEX M250-B IS COMPATIBLE WITH EXISTING RV SYSTEMS

To ensure maximum flexibility for RV enthusiasts, our system integrates seamlessly with existing power components typically found in an RV, including:

- Deep cycle batteries
- Inverters
- Chargers
- Vehicle alternators
- Shore power
- Generators
- Solar panels with MPPT controllers
- Pumps and motors
- Automatic transfer switches

TYPICAL HYBRID POWER SYSTEM WITH A PROTONEX M250-B





Open up your world

ENJOY GREATER FREEDOM WITH YOUR PROTONEX-EQUIPPED RV

By incorporating advanced fuel cell and hybridization technology, the M250-B automatically manages your power needs releasing you from the shore power tether. With the Protonex M250-B, you're free to focus on the reason you RV in the first place.

Freedom from noise

With the quiet, vibration-free Protonex M250-B in your RV you'll fall asleep to the relaxing sounds of nature, not the drone of your power system—even if it is operating right next to you.

Freedom from generator curfews

The Protonex M250-B provides quiet, odor-free power so you can run your lights and electrical appliances even after generator curfew without disturbing your neighbors.

Freedom from shore power reservations

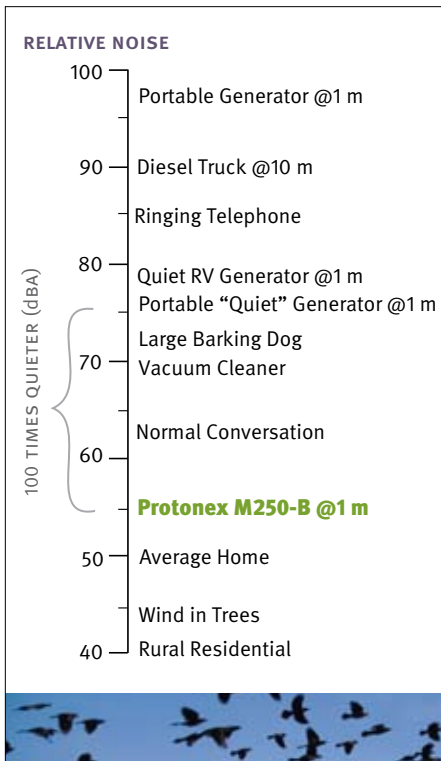
Frustrated with making shore power reservations months in advance? The M250-B removes the reservation hassle and allows you to leave shore power behind.

Freedom from dead batteries

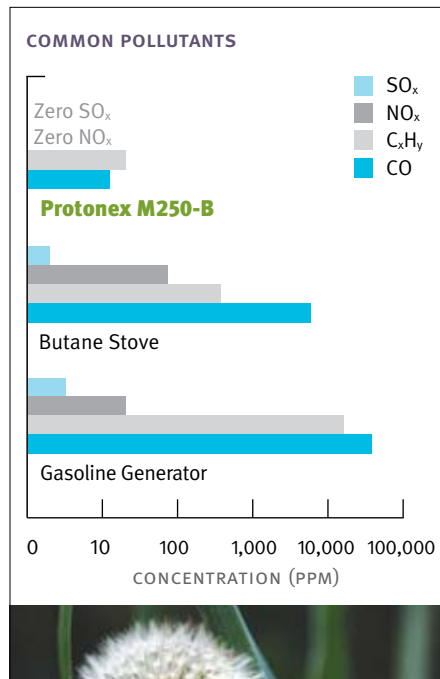
The fully automatic M250-B will keep your battery system in top condition without intervention so you can confidently venture to remote areas beyond access to the power grid.

Freedom from fumes

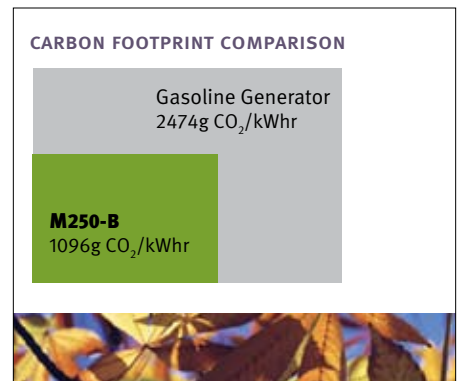
Why put up with generator exhaust fumes? The Protonex system's emissions are lower than a typical indoor gas stove—so low the Protonex M250-B can be run indoors with minimal ventilation.



The noise and vibration emissions from the M250-B are so low that you can talk at the kitchen table with it operating next to you.



The Protonex M250-B has emissions 1,000 times lower than a typical indoor gas stove—so low that it can be run indoors with minimal ventilation.



The carbon footprint of a Protonex M250-B is 60% less than a conventional generator.



Product specifications

FEATURES AND FUNCTIONS

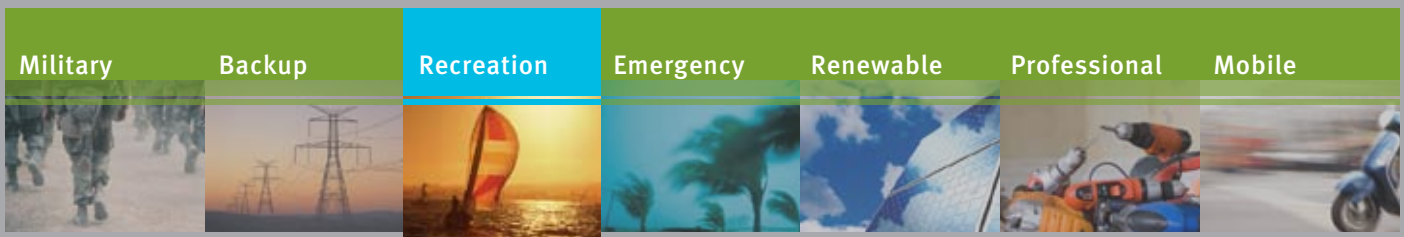
- Directly connects to existing battery bank
- Automated for worry-free operation
- Built-in self-test routines keep system in peak operating condition
- Powered by clean methanol fuel
- Ability to connect to the vehicle CAN bus or a personal computer USB port
- Low fuel warning signal
- Temperature compensated battery charging extends life of VRLA, AGM and Gel batteries
- Programmable two or three step charge profiles

OPTIONAL ACCESSORIES

- Short run fuel tank
- Long run fuel tank
- Convenient system status and control provided on remote display
- Monitoring software
- Ventilation kit
- Vehicle mounting kit

TECHNICAL SPECIFICATIONS

PERFORMANCE	CONTINUOUS POWER	250 W
	OUTPUT VOLTAGE	10.5–14.8 VDC
	WARRANTY	1 Year or 1,000 Operating Hours
	FUEL CONSUMPTION	8 Hours/gallon (2 Hours/liter)
	RUGGEDNESS	Vehicle Shock & Vibration
	NOISE	55 dBA @ 3 ft (1 m) 38 dBA @ 23 ft (7m)
	CO EMISSIONS	< 30 ppm
PHYSICAL	TOTAL HYDROCARBON EMISSIONS	< 30 ppm
	SIZE (L X H X D)	22 x 14 x 12 in (56.4 x 35.5 x 30.5 cm)
	WEIGHT	< 40 lbs (18 kg)
	COLOR	Black
ENVIRONMENT	SHELL MATERIAL	High Impact Thermoplastic
	OPERATING TEMPERATURE	-4° to 122°F (-20° to 50°C)
	STORAGE TEMPERATURE	-40° to 140°F (-40° to 60°C)
	RELATIVE HUMIDITY	10–90% (Non-condensing)
	ALTITUDE (WITHOUT DE-RATING)	6,560 ft (2,000 m)



Protonex is opening up a world of new energy by revolutionizing the way you can use portable power. Protonex power solutions offer numerous advantages over batteries and generators for recreational power, including:

- Clean and quiet power
- Reduced size and weight
- Extended run times
- Reduced emissions
- Greater efficiency
- Lower maintenance



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