



RECORD THIS INFORMATION FOR FUTURE REFERENCE
BEFORE INSTALLING THE UNIT:

Model Number _____
Serial Number _____
Date Purchased _____
Place of Purchase _____

Kwyatt® POWER

USA
SERVICE OFFICE
The Dometic Corp.
509 So. Poplar St.
LaGrange, IN 46761
(219) 463-4858

For Service Center
Assistance Call:
800-544-4881

Kwyatt Power 1
3108124.003

Kwyatt Power 2
3108124.011

THIS UNIT IS DESIGNED FOR OEM INSTALLATION
ALL INSTALLATION DESIGNS MUST BE APPROVED BY DOMETIC'S SALES DEPT.

! WARNING

This manual must be read and understood before installation, adjustment, service or maintenance is performed. This unit must be installed by a qualified installer. Modification of this product can be extremely hazardous and could result in personal injury or property damage.

! AVERTISSEMENT

Lire et comprendre ce manuel avant de procéder à l'installation, à des réglages, de l'entretien ou des réparations. L'installation de cet appareil doit être effectuée par un réparateur qualifié. Toute modification de cet appareil peut être extrêmement dangereuse et entraîner des blessures ou dommages matériels.

INSTALLATION & OPERATING INSTRUCTIONS

**Kwyatt
Power 1 & 2**

SAFETY INSTRUCTIONS

This manual has safety information and instructions to help users eliminate or reduce the risk of accidents and injuries.

RECOGNIZE SAFETY INFORMATION



This is the safety-alert symbol. When you see this symbol in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating instructions

UNDERSTAND SIGNAL WORDS

A signal word, Warning or caution is used with the safety-alert symbol. They give the level of risk for potential injury.

WARNING: means if the safety information is not followed someone could be injured or killed and/or damage to equipment could occur.

CAUTION: means if the safety information is not followed someone might be injured and/or damage to equipment might occur.

Read and follow all safety information and Instructions.

SPECIFICATIONS

	Kwyatt Power 1	Kwyatt Power 2
AMP Hour	255	510
Voltage (DC)	12.0	12.0
DC Cir. Protection (Amps)	150	150
Installed Weight (Lbs)	200	370
Recommended Maximum Continuous Load Watts	500	800
Recommend Min. Alt.	125 Amp	125 Amp

GENERAL INFORMATION

Kwyatt Power provides the over the road truck driver with some of the conveniences of home.

1. 120 Volt AC Power to operate:
 - a. Cab Comfort Air Conditioner/Heat Pump unit
 - b. Color Television
 - c. Coffee Maker
 - d. Electric Refrigerator up to 1.5 Amp Max.
 - e. Crock Pot
 - f. Microwave (up to 800 Watts)
 - g. VCR
 - h. Power Drill
2. The Kwyatt Power pack 1 & 2 are maintenance free. No water to add, no oil to change, and no belts to keep tight. Quick and easy to install with common, everyday tools; a drill, combination wrench set and drill bits.

Kwyatt Power systems can be operated above the maximum continuous loads for short time intervals. Continuous operation at higher loads may result in reduced battery life and may invalidate warranty. Dometic will offer general guidelines only on inverter size required to power their Air Conditioner/Heat Pump products. The installer/customer is responsible for determining the size of inverter they need based on all of the loads they intend to run simultaneously..

The Kwyatt Power 1 comes with one "8D glass matt" battery and a power inverter that will operate 120 Volt AC appliances. The Kwyatt Power 2 has 2 "8D glass matt" batteries and doubles power available and operation time.

INSTALLATION INSTRUCTIONS



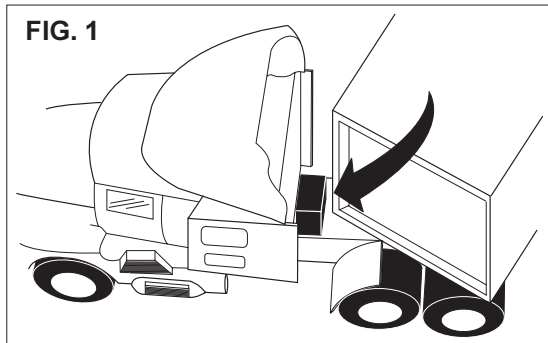
Failure to follow these instructions may result in improper installation which could endanger life, cause serious injury and/or property damage.

Important: Ensure the vehicle alternator is large enough to charge the battery pack. (12 Volt nominal output, 125 Amp or greater capacity)

1. Remove the Kwyatt Power pack from its shipping carton.
2. Select the area where the power pack will be installed.
 - A. Storage compartment i.e.; under a bunk or in an outside storage area.
 - B. Mounted to the outside of the frame rail on a special rack.
 - C. Between the rails in a special battery box.

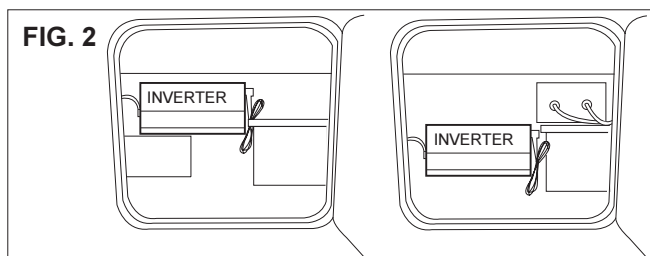
D. Catwalk-as close to cab as possible.

Important: Check the clearance between the nose of the trailer and the back of the cab during tight turns. With the 5th wheel adjusted fully forward on the rig, the nose of the trailer may be too far forward, allowing contact with the Kwyatt Power Pack. See FIG. 1.



3. Position the power pack in the selected location and secure in place
4. The inverter may be installed inside the truck, up to 12 feet (wire routing), from the Power Pack. Connect the remote power switch to the inverter if being used and install the inverter with screws or bolts as needed.

Note: If inverter location selected has carpet, a board or sheet metal must be installed to protect the bottom air opening.



5. A 1.5" diameter hole must be drilled in the sleeper cab close to the inverter terminals.
6. Route the 1 gauge wires marked "Inverter" through the 1.5" diameter hole.

⚠ WARNING

Do not remove protective sleeve from wire connectors until ready to connect. Do not allow 12 volt positive (+) red wire to be grounded. This creates a shock and fire hazard, and can endanger life, cause serious injury and/or property damage.

Note: Wires must not be shortened. Excess wire should be coiled and tied securely to the vehicle frame.

7. With the inverter, power pack, and wires in place the unit is ready to be wired.

Important: Make sure that the switch, located on the inverter, is in the "OFF" position.

8. Connect the positive 12 volt (+ red wire) to the inverter red post. Next connect negative 12 volt (- black wire) to the black post on the inverter.
 - A. Connect the inverter ground lead to a metal panel that is a suitable grounding surface.
9. Route the 4 gauge wires marked "Truck battery" to the truck run batteries.
10. Next connect the positive (+ red wire) to the positive terminal on the truck run batteries. A 150 amp fuse or circuit breaker must be installed on the truck battery end. Then connect the negative (- black wire) to the negative terminal on the truck run batteries.
11. Secure the wires to the truck frame using wire ties.
12. Connect the small black wire that is connected to the 8D battery negative terminal to the bottom terminal of the battery separator.
13. Turn the inverter switch to the on position. You now have 115 Volt AC power.
14. Start the vehicle engine and confirm the separator connects the vehicle and the power pack batteries when the vehicle is running.

If a Cab Comfort/Heat Pump is to be installed, please follow the instructions that came with the Heat Pump.

INVERTER OPERATION

To operate the inverter, turn it on using the ON/OFF switch on the front panel. The inverter is now ready to deliver AC power to your loads. If you are operating several loads from the inverter, turn them on separately after the inverter has been turned on. This will ensure that the inverter does not have to deliver the starting current for all the loads at once.

1. Controls and Indicators

- A. **ON/OFF Switch** - turns the inverter on and off. It **DOES NOT** disconnect power from the inverter. When the switch is OFF, the inverter draws no current from the battery. When the switch is ON, but no appliances are on, the inverter draws less than 1/2 amp from the battery.
- B. **OVERTEMP Indicator** - light and alarm sound indicates that the inverter has overheated and shut itself down. The inverter may overheat because it has been operated at power levels above its continuous output rating, or because it has been installed in a location which does not allow it to dissipate heat properly. The inverter will restart automatically once it has cooled off.
- C. **OVERLOAD Indicator** - shows that the inverter has shut down because of severe overload. Do not turn the inverter back on unless the load is removed/unplugged. Switch the ON/OFF switch to OFF, remove the load and then switch the ON/OFF switch back to ON.

Note: Refer to the inverter owners manual for more detailed information.

2. TroubleShooting

A. Common Problems

1. Buzz in audio systems - Some inexpensive stereo systems and "boom boxes" will emit a buzzing noise from their speakers when operated from the inverter. This is because the power supply in the device does not adequately filter the modified sign wave produced by the inverter. The only solution is to use a sound system that incorporates a higher quality power supply.
2. Television interference - Operation of the inverter can interfere with television reception on some channels. If this situation occurs, the following steps may help to alleviate the problem.
 - a. Make sure that the chassis grounding lug on the back of the inverter is solidly connected to the ground system of your vehicle.
 - b. Do not operate high power loads with the inverter while watching television.
 - c. Make sure that the antenna feeding your television provides an adequate "snow free" signal and that you are using good quality cable between the antenna and the television.
 - d. Move television as far away from the inverter as possible.
 - e. Keep the cables between the battery and the inverter as short as possible and twist them together with about 2 to 3 twist per foot. This minimizes radiated interference from the cables.

3. **Maintenance** – Very little maintenance is required to keep your inverter operating properly. You should clean the exterior of the unit periodically with a damp cloth to prevent accumulation of dust and dirt. At the same time, insure the screws of the DC input terminals are still tight.

4. Troubleshooting Guide

<u>Problems & Symptoms</u>	<u>Possible Cause</u>	<u>Solution</u>
Low output voltage (96 V AC to 104 V AC)	Using standard reading voltmeter	Use true RMS reading meter
No output voltage, no voltage indication	Inverter switched off No power to inverter Internal fuse open	Turn Inverter on Check wiring to inverter Have qualified service technician check and replace fuse.
Low battery alarm on all the time, voltage indicator below 11V	Poor DC wiring Poor battery condition	Use proper cable and insure solid connections Use new battery
No output voltage, OVERTEMP indicator on, load in excess of 1500 watt/150 amp battery input current	Thermal Shutdown	Allow inverter to cool off 1. Reduce load if continuous operation in inverter aren't obstructed 2. Improve ventilation, make sure ventilation openings in inverter aren't obstructed 3. Reduce ambient temperature
No output voltage, OVERLOAD indicator on	Very high power load Short circuit or wiring error	Remove load i.e.; microwave, coffee pots, toaster and A/C on at same time Check appliances wiring for short circuit or improper polarity (hot and neutral reversed)

