

Flexcharge™ Diversion Load Pad 12Volt, 30 Amp rating.

This diversion load heating pad is intended for use with a Flexcharge Charge controller on systems with a wind or water driven generator/alternator charging source. Do not exceed the rating of the pad as damage and possible fire could result. Size 5 inches by 7 inches by 1/16 inches



The pad must be installed on a metal water tank with at least 2 inches of water constantly on the inside surface of the tank. If the pad is installed on a tank without water in contact with the metal on the inside of the tank where the pad is installed, the pad will overheat and could cause a fire. Never install this pad on anything but a metal tank.

PAD INSTALLATION

Choose a location on the tank where it will always have water on the other side of the metal. The tank can be a cold or hot water tank. If the tank is a fresh water supply tank and the level varies, the best location would be the bottom never on the top. If there is combustible material within 6 inches of the pad, place a sheet of aluminum sheet metal at least 12 inches square on the combustible surface directly opposite and centered from the heating pad. In normal operation the pad will not get excessively hot but you need to take precaution in the event there is a problem with the water tank or the pad was pulled loose from the surface. **DO NOT CUT THE PAD TO FIT. IT MUST BE USED FULL SIZE.**

A curved surface is acceptable as long as the curve is of a 10 inch radius or greater.

Clean the metal surface to be sure it is smooth and free of any contaminants. If it is painted, remove the paint with sand paper or paint remover. Wipe the surface with a degreasing solvent to remove any oils and dust. After the solvent has dried from the surface, remove the paper from the pad. If you are in a cool climate, you can apply 12 volts to the pad for not more then 5 seconds to warm it up making the paper easier to remove. **DO NOT TOUCH THE ADHESIVE.** Position the pad in the selected location making sure the wires point the desired direction. Push hard on the entire pad surface working from the center outward to be sure it is completely stuck to the surface with no air bubbles. Use the supplied tube of sealer to seal the edges of the pad. Let the sealer cure for 24 hours before you apply any power to the pad. Paint any metal that was exposed but not covered by the pad or the sealer.

WIRING

Connect one of the pad wires to the divert terminal on the Flexcharge controller and the other wire to the system negative. It is recommended that a 35 amp fuse be installed in the wire to the divert terminal. Any wire extensions **MUST** be soldered to the pad wires and the extension wires should be #10 stranded wire or larger.

OPERATION

When power is first applied to the pad, observe the unit to be sure it is functionally normally. It is normal for the pad to get uncomfortable to touch if it is running at maximum power. If the pad begins to smoke you are beyond the electrical limits of the pad or the pad is not securely glued to the metal tank. If you detect a problem stop using the pad until the problem is corrected.

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