

## **Surge Protection Addition**

After hearing and reading about all the horror stories regarding electrical surges in campgrounds and the effects on the RV's appliances, I decided to install a permanent surge protection.

This was a simple decision, I went out and purchased a standard "Leviton 51120-1" house surge protection box in a NEMA 01 enclosure. This was a standard residential grade house surge protection for a single phase 120/240 V 50 kA with a peak of 150 V per line. It has an automatic reset mode plus phase lights.

The installation amounted to cutting a hole in the base of the bed next to the circuit breakers and wiring into the two phases (one on each 20 amp circuit breaker ) and the ground. The total cost was just under \$170 that included shipping which I thought was quite reasonable compared to the portable mounts.

## **Re-wired the AC lines**

We've gotten into the habit of using electric heaters to take the chill out of the RV in the morning. The problem with this is a good one electric heaters running through the inverter circuitry.

So what I did was to install outlets wired directly into the 20 amp AC circuits, this way the electric heaters would use the 20 amp AC circuit ( this assumes I would not have the electric heaters in the air conditioners on at the same time ).

This worked out very well, when hooked to shore power the power-sharing system look like the air conditioners were operating in the same with the generator. No more worrying about where the hairdryer, coffee maker, toaster etc. were plugged in any longer.