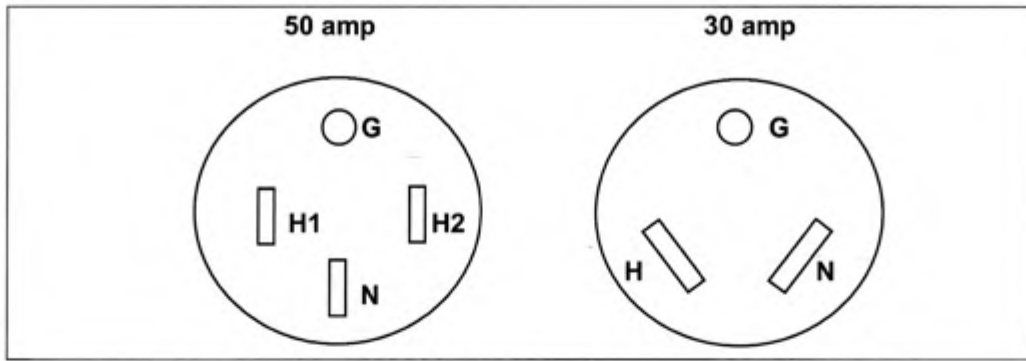


UNDERSTANDING, MONITORING, AND PROTECTING THE RV ELECTRICAL SYSTEM



H1 = 50A x 120V = 6000 Watts
H2 = 50A x 120V = 6000 Watts
Total = 12000 Watts

H = 30A x 120V = 3600 Watts

- I. **Power Surges**
 - A. Nature - Electrical storms (Unplug, Jacks)
 - B. Failed power equipment
 - C. Man-made interference
- II. **Voltage & Wiring Problems**
 - A. Low Voltage – Under 104 Volts = Higher Amperage, higher heat, slower running, early failure
 - B. High Voltage – Over 132 Volts (not a surge, but in excess of 132V for a period of time) = Burn out or premature failure of lights, refrigerator heating element, sensitive electronics
 - C. Open or Lost Neutral = 240 Volts surging through RV
 - D. Reverse Polarity = Safety, all neutral lines become hot
 - E. Open Ground = Electrocution, Shock
- III. **Protection**
 - A. Meters
 - B. Surge Protectors – Know what a Surge is
 - C. Voltage Protectors
 - D. Boosters/Transformers - Not Protection
- IV. **Sources of Power**
 - A. Pedestal
 - B. Generator
 - C. Inverter
 - D. Propane

Before You Blow Your Breaker

Air Conditioner (x no. used)	12-16 amps	Television	1-4 amps
Refrigerator	5-8 amps	Electric Frying Pan	6-12 amps
Electric Water Heater	9-13 amps	Iron	5-10 amps
Microwave Oven	8-13 amps	Computer	2-3 amps
Electric Coffee Pot	5-8 amps	Washer/Dryer	14-16 amps
Toaster	7-10 amps	Space Heater	8-13 amps
Hair Dryer	5-12 amps	Light Bulb (60 Watt)	< 1 amp

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