

Mountain Power Solutions LLC Specializing in Remote Power Engineering Applications 382 Ridgway Dr.Grand Junction, CO 81507 (970)208-5329

Load Calculator for Off-Grid & Backup Power Systems

AC Loads

	Load Description or Appliance	Quantity	Power Rating (W)*	Operating Time (hr/day)	Operating Days/ Week
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

* if Wattage is unknown, try to get the current rating (Amps) and Voltage rating (Volts) of the device

DC Loads (Please note that DC loads are unusual and are not as economical as they used to be for residential off-grid scenarios)

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	Load Description or Appliance	Quantity	Power Rating (W)*	Operating Time (hr/day	Operating Days / week
1					
2					
3					
4					
5					

* if Wattage is unknown, try to get the current rating (Amps) and Voltage rating (Volts) of the device

Typical Wattages of Various Appliances

Here are some examples of the range of nameplate wattages for various household appliances: Coffee maker = 900-1200Clothes washer = 350-500Clothes dryer = 1800-5000Dishwasher = 1200–2400 (using the drying feature greatly increases energy consumption) Dehumidifier = 785Electric blanket- Single/Double = 60 / 100Fans o Ceiling = 65-175o Window = 55-250o Furnace = 750o Whole house = 240-750Hair dryer = 1200 - 1875Heater (portable) = 750-1500Clothes iron = 1000-1800Microwave oven = 750-1100Personal computer o CPU - awake / asleep = 120 / 30 or less o Monitor - awake / asleep = 150 / 30 or less o Laptop = 50 Radio (stereo) = 70-400Refrigerator (frost-free, 16 cubic feet) = 725Mountain Power Solutions LLC (970)208-5329

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Televisions (color) o 19" = 65-110o 27" = 113o 36" = 133o 53"-61" Projection = 170 o Flat screen = 120 Toaster = 800-1400Toaster oven = 1225VCR/DVD = 17-21 / 20-25Vacuum cleaner = 1000-1440Water heater (40 gallon) = 4500-5500Water pump (deep well) = 250-1100Water bed (with heater, no cover) = 120-30

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