

Ottawa Valley PhotoVoltaic Solar Generated Electricity

Off Grid Load Analysis -- Typical weekend use cottage

Description	AC or DC	Qty	Power Rating (W)	Power on standby/off	Day Week Month Year	Operating time Hours	Per Day total	Peak Watts	In Peak load
Grundfos 10SQE05-160 (96160210) 1/2HP well pump 33.34l/ min, 274l per person *2	AC	1	1090		1 Day	0.137	173.16	1500	✓
Refrigerator/freezer GE GTN18BBC Electric Best Energy Star 18 cu ft 311 kWh/Y	AC	1	35.502		Day	24	852.05		✓
Dish washer GE PDWT380V 275kWh/Y. 1.32kWh/load Water Usage 4-5USG Average use 4	AC	1	1320		Day	0.5	660	1188	
Ceiling fan Canarm Seymour .42A fan only, 3 60W lite sockets fan portion	AC	1	50.4		Day	6	302.4		
Hair Dryer 1500W	AC	1	1500		Day	0.0833	125	1500	
Eureka vacuum cleaner model 5851	AC	1	1018		Week	1	145.43	1440	
Laptop computer. Mac Book uses 2W idle when fully charged.	AC	1	22	0.77	Day	2	60.94		✓
iPhone Cell phone charger	AC	1	18		Day	3	54		✓
Steam Iron 1/2hr / week, GE 169233	AC	1	1500		Week	0.5	107.14	1500	
Radio	AC	2	10		1.6 Day	1	93.6		✓
Kitchen countertop appliances toaster, kettle, coffe perk, microwave, only one at a time	AC	1	1500		Day	0.75	1125		✓
13W CFL 800 lumens	AC	6	13		Day	5	390		✓
Bathroom fan (72W) & light Nutone 768CHNT-A (2 lite sockets, 13W) Fan	AC	1	72		Day	1	72		✓
Generator starter battery charger, maintaining fully charged battery.	AC	1	12		Day	2	24		✓
Generator battery warmer auto on when battery 95% discharged	AC	1	50		Day	1	50		✓
Samsung - T24C350NP 24" 1080p LED Smart TV 23.6W, 0.2W standby	AC	1	23.6	0.2	Day	2	51.6		✓
Bell satellite HD TV receiver model Echo star 6400 7.4W on, 7.0W standby	AC	1	7.4		7 Day	2	168.8		
DVD/Blue Ray player Samsung - BD-H5900	AC	1	5.2		Day	1	5.2		
Outback FM80 idle 1W	AC	1	1		Day	12	12		✓
Outback VFX3648 idle 25W or search mode 6W	AC	2	6		Day	8	96		
Battery box vent fan models Zephyr 48 V 85.8209 8cfm 6W	DC	1	6		Day	2	12		
Total AVERAGE Load per day (Watt Hours)							4568.3		
Total PEAK Load (Watts)							3332.1		
Total of standby power included in average load (Watts Hours / day)							272.8		