

# Ottawa Valley PhotoVoltaic Solar Generated Electricity



## Off Grid Load Analysis -- 7 day a week 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	0.2739	322.33	1500	✓
Refrigerator/freezer GE GTN18BBC Electric Best Energy Star 18 cu ft 311 kWh/Y	AC	1	35.502		Day	24	852.05		✓
Washing machine Frigidaire FAFW3801LW front load 99kWh/Y. .33kWh/load Water Usage/Y	AC	1	330		1 Week	2	118.57	960	
Dish washer GE PDWT380V 275kWh/Y. 1.32kWh/load Water Usage 4-5USG Average use 4	AC	1	1320		Day	0.5	660	1188	
Propane Dryer Wirlpool WGD9050 742 max, 250-270W running, 0 standby, assume 1 hr dry	AC	1	260		Week	2	74.286	742	
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		✓
Sony 42" 1080p 120Hz LED Smart TV (KDL42W650A) 0.45W standby	AC	1	50	0.45	Day	3	159.45		✓
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		
High speed Internet via terrestrial radio (storm.ca)	AC	1	7		Day	2	14		
WiFi router	AC	1	6		Day	2	12		
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)							5044.2		
Total PEAK Load (Watts)								3358.5	

Total of standby power included in average load (Watts Hours / day)

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