

Ottawa Valley PhotoVoltaic Solar Generated Electricity

Off Grid Load Analysis -- Year Round Home

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	✓
95% efficient propane central forced air furnace Trane TUH2B060A9V3VB 60000BTU, 1AC	AC	1	155	18.8	Day	8	1540.8	1296	✓
Power vented propane DHW heater John Wood JW850NVH-ES-02 38,000btu. Family s	AC	1	99		Day	1.05	103.95	218	✓
Refrigerator Electric Best energy star 18 cu ft 330 kWh/Y	AC	1	38.47		Day	24	923.29		✓
Chest freezer GE FCM5CN 5 cu ft 193 kWh/Y	AC	1	22.032		Day	24	528.77		✓
Washing machine Frigidaire FAFW3801LW 99kWh/Y. .33kWh/load Water Usage/Year:	AC	1	330		1 Week	2	118.57	960	
Dish washer GE PDWT380V 275kWh/Y. 1.32kWh/load Water Usage 4-5USG Average	AC	1	1320		Day	0.5	660	1188	
Propane Dryer Wirlpool WGD9050 742 max, 250-270W running, 0 standby, assume 1 h	AC	1	260		Week	2.5	92.857	742	
Hair Dryer 1500W	AC	1	1500		Day	0.083	124.5	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	3	82.17		✓
iPhone Cell phone charger	AC	2	18		Day	3	108		✓
Steam Iron 1/2hr / week, GE 169233	AC	1	1500		Week	0.5	107.14	1500	
Stereo tuner, cd player selected for high efficiency	AC	1	40		1 Day	2	102		✓
Toaster	AC	1	1500		Day	0.16	240	1500	
Microwave oven 1200W 2.57 standby	AC	1	1200	2.57	Day	0.167	261.65	1200	
Keurig K45 coffee brewer 1 cup, 1 minute brewing cycle	AC	1	1500		Day	0.13	195	1500	✓
13W CFL 800 lumens	AC	12	13		Day	5	780		✓
Bathroom fan (72W) & light Nutone 768CHNT-A (2 lite sockets, 13W) Fan	AC	2	72		Day	1	144		✓
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		✓

PANASONIC 65" 1080p Edge LED TV (TC-L65E60) 0.2W standby	AC	1	84.2	0.2 Day	3	256.8	✓
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	3	21	
WiFi router	AC	1	6	Day	3	18	
Desktop computer and LCD monitor on 63+29W sleep 2.12 + .41	AC	1	92	2.53 Day	0.5	105.46	
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)		1				7337.7	
Total PEAK Load (Watts)		1				6619.7	
Total of standby power included in average load (Watts Hours / day)		1				665.89	