

Ottawa Valley PhotoVoltaic Solar Generated Electricity

Off Grid Load Analysis -- Small cabin weekend use

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
Shurfo 9300 12 or 24V DC submersible pump, 12V 200' lift, 2.58 l/min	DC	1	40.8		Day	1.77	72.217		✓
Refrigerator Electric SunDanzer DCR225 Top loading Watt-hours used on 70/90 degree day:	DC	1	5.8333		Day	24	140		✓
Hair Dryer 1500W	AC	1	1500		Day	0.0833	125	1500	
Eureka vacuum cleaner model 5851	AC	1	1018		Week	1	145.43	1440	
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	0.583	874.5		✓
13W CFL 800 lumens	AC	4	13		Day	5	260		✓
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		
Outback FM80 idle 1W	AC	1	1		Day	12	12		✓
Outback VFX3648 idle 25W or search mode 6W	AC	1	6		Day	8	48		
Battery box vent fan 12V models Zephyr 6cfm 3W	DC	1	6		Day	2	12		
Total AVERAGE Load per day (Watt Hours)							2298.3		
Total PEAK Load (Watts)							1795.2		
Total of standby power included in average load (Watts Hours / day)							232		