

Caravans Plus 12v Calculation Sheet						
Note	12 Volt Device	Watts	Amps=watts/12	Usage		Total Current/day
				Quantity	Hrs/day	
1	Water Pump		5.2	1	0.2	1.0
2	Fridge fan for gas fridge		0.4	1	6	2.4
3	Stove Exhaust Fan		0.4	1	0.5	0.2
5	TV - digital	40	3.3	1	2	6.7
6	Bedside LED Light	0.36	0.03	2	1	0.1
7	Ceiling LED Light	3.6	0.3	3	3	2.7
8	Outside LED Light	3.6	0.3	1	3	0.9
						14.0
			Amps=watts/220/85%			
20	<b>240 Volt Devices</b>		85%	Edit Inverter efficiency		
21	Inverter Overhead		2.1	1	9	18.9
22	Curlers	1500	8.0	1	0.5	4.0
23	Microwave	1800	9.6	1	0.3	2.9
24	Food processor	1800	9.6	1	0.2	1.9
25	Carving knife	900	4.8	1	0.25	1.2
26	Kettle	1200	6.4	1	0.5	3.2
27	Toaster	1200	6.4	1	0.08	0.5
28	Table Fan	75	0.4	1	3	1.2
9	Mobile phone chargers	5	0.0	2	2	0.1
10	Laptop	50	0.3	2	3	1.6
11	Shaver	10	0.1	1	3	0.2
						35.7
<b>Daily Use A/h</b>						<b>49.69</b>

Batteries	ah	Quantity	Discharge	Usable ah
	120	2	50%	120
<b>Days of average usage</b>	Usable ah 120	divide by	Daily usage 49.69	<b>2.41</b>

Instructions:

Changes to LED devices

**Devices used**

**Watts** - If watts are known enter watts and Amps are automatically calculated.

**Amps** - If watts are not known for 12v devices they can be manually added (this will delete the auto calculation)

**Usage** - Enter expected hours and mins per day

**Amp Hours per day** is automatically calculated.

**Batteries available**

Enter different battery configurations

**Days of average usage**

The number of days you can expect from a full charge. No solar input or Alternator input is included here.

## 220 Inverter

For all essential 220V appliances, the watts need to be divided by 220V to get the amps/h for the calculations

Frequency/ week	Total / week
7.0	7.3
7.0	16.8
7.0	1.4
7.0	46.7
7.0	0.4
7.0	18.9
7.0	6.3
	97.8

7.0	132.3
1.0	4.0
3.0	8.7
3.0	5.8
2.0	2.4
7.0	22.5
7.0	3.6
7.0	8.4
3.0	0.3
2.0	3.2
1.0	0.2
	191.3

**289.09**

Weekly



