Total daily load (Wh/d) x days of storage==PHASE I
Battery voltage (V_{bat}) x 0.50

	On battery/PV		**Generator Only**
Total daily load (Wh/d)	4461.22	WattHours per Day	3432.72
days of storage	1	days	
Battery voltage (V_{bat})	12	12V Batteries	
Battery Capacity Needed	**743.5**	Ah-amp-hours	
	4.5	182AH batteries	
Inverted AMPS at 120v	**10.9**		

On Battery/PV	**Watts**	**Hrs**	**Wh/d**	**Verified Use**	Xantrex Sw3000 puresinewave inverter -charger
SAT Receiver	29	24	696	X	
energystar refrigerator	54	24	1284.72	GUESS	
TV	71	4	284	X	
coffee pot	770	0.75	577.5	X	
Cell Charger 4watts x2 chargers	8	6	48	X	
Floor Fan	118	5	590	X	
Wilson Cell repeater	9	5	45	X	
DC Water Pump	84	1	84	GUESS	Shurflo dc water pump 7amps
lights	141	4	564	GUESS	
fan	24	12	288	GUESS	
WATTS	**1307.5**		**4461.22**	**Wh/d**	
Inverted AMPS at 120v	**10.9**		**4.5**	**kWHr/day**	

Generator Only	**Watts**	**Hrs**	**Wh/d**	**Verified Use**	
air conditioner-seasonal need	510	5	2550	X	
water pump	560	0.5	280	GUESS	
Washer – 3 loads	1066	0.42	448	X	These will be run with generator running
microwave	1550	0.1	155	X	
WATTS	**3686.0**		**3432.72**	**Wh/d**	
AMPS at 12v	**30.7**		**3.4**	**kWHr/day**	

Formulas
V=Current * Resistance
P = (amps^2) * Resistance = (amps^2)R
Watts=Volts x Amps   Power   1800
Volts=Watts/Amps   Pressure
Amps=Watts/Volts   volume of electricity flowing in pipe