

Performance of solar home system

Location: 39°12'37" North, 7°39'36" West, Elevation: 336 m a.s.l.,

Nominal power of the PV system: 2450 W

Inclination of modules: 28 deg.

Battery size : 24 V, 459 Ah

Discharge cutoff limit (%) 40 %

Consumption per day: 1301 Wh

Number of days used for the calculation: 1827

Percentage of days with fully charged battery 98.41%

Average energy not captured due to full battery: 8475.85Wh

Percentage of days the battery became fully discharged: 0%

Average energy missing: 0Wh

Month	Ed	Ff	Fe
Jan	1300.0	94	0
Feb	1300.0	99	0
Mar	1300.0	100	0
Apr	1300.0	100	0
May	1300.0	100	0
Jun	1300.0	100	0
Jul	1300.0	100	0
Aug	1300.0	100	0
Sep	1300.0	100	0
Oct	1290.0	98	0
Nov	1310.0	98	0
Dec	1300.0	91	0

Ed: Average energy production per day (Wh/day)

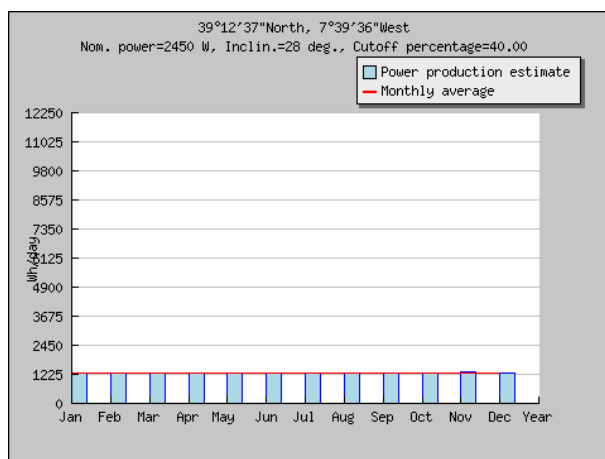
Ff: Percentage of days when battery became full (%)

Fe: Percentage of days when battery became empty (%)

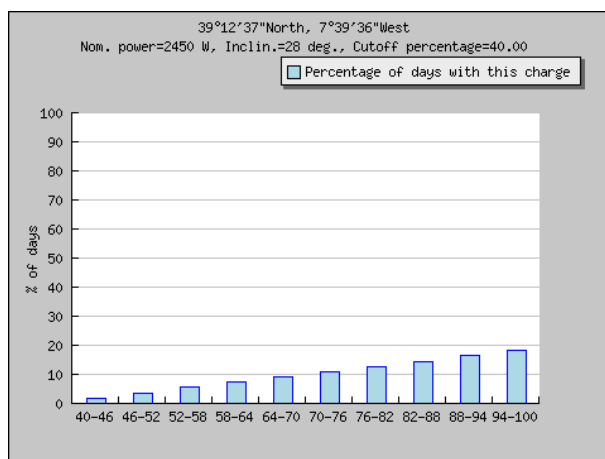
Cs	Cb
40-46	1
46-52	3
52-58	5
58-64	7
64-70	9
70-76	10
76-82	12
82-88	14
88-94	16
94-100	18

Cs: Charge state at end of each hour (%)

Cb: Percentage of days with this charge state (%)



Monthly energy output from SHS system



Probabilities of battery charge state at the end of each hour

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