8.3.3 System 200Wp Kudumatse

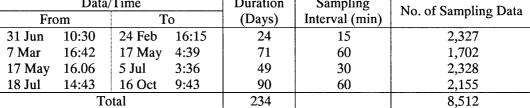
The data acquisition system that is installed at Kudumatse is described in Attachment 6 and 7.

Data sampling using the data acquisition system has been done in the following period and manner.

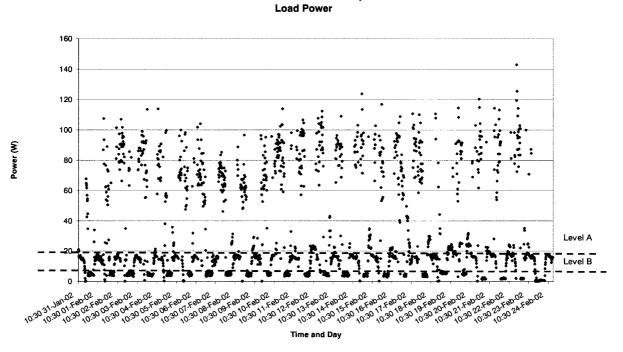
Typical time serious data and comments on than are introduced in the following paragraph.

Appendix Table 8.3-3 System 200Wp Kudumatse Sampling Data

Data/Time Duration Sampling No. of Sampling Data From То (Days) Interval (min) 2,327 31 Jun 10:30 24 Feb 16:15 24 15 17 May 4:39 7 Mar 16:42 71 60 1,702 17 May 16.06 3:36 30 2,328 5 Jul 49 18 Jul 14:43 16 Oct 9:43 90 60 2,155



Kudamatse House 200Wp

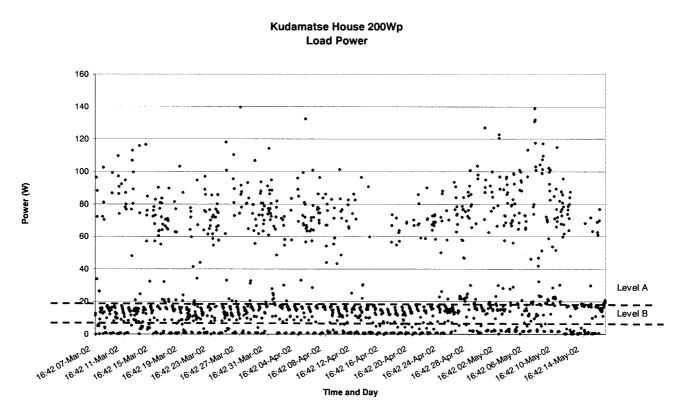


Appendix Figure 8.3-16 Kudumatse House 200Wp Load Power

Observations:

No load power consumption of the inverter at night-time is approximately 4 Watt (level B).

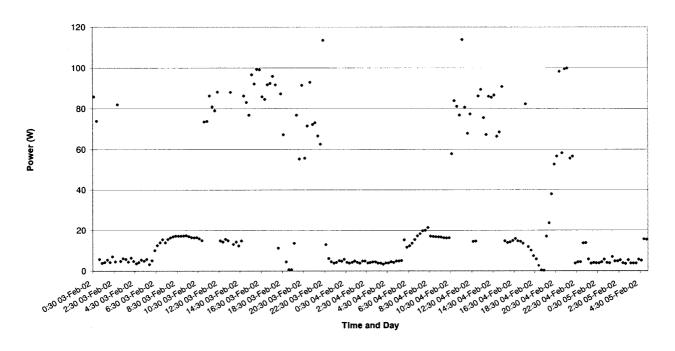
- * Maximum no load power consumption of the inverter at night-time is approximately 18 Watt (level A).
- * Inverter is almost continuously switched on.
- * Maximum load power consumption is 143 Watt.
- * System is used during daytime, as well as during the evening



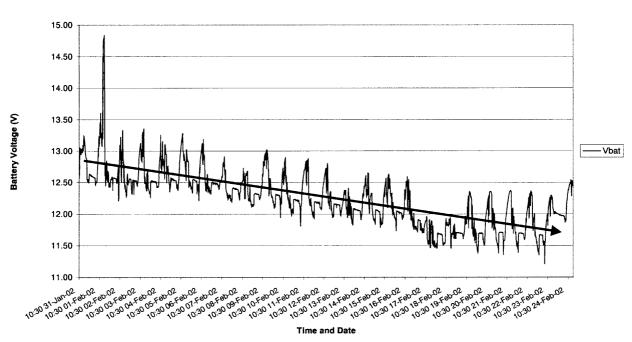
Appendix Figure 8.3-17 Kudumatse House 200Wp Load Power

- * During this time period the inverter is switched off when not used (Appendix Figure 8.3-17)
- * Power consumption of the inverter in no load condition depends on the battery voltage (Appendix Figure 8.3-18)

Kudamatse House 200Wp Load Power



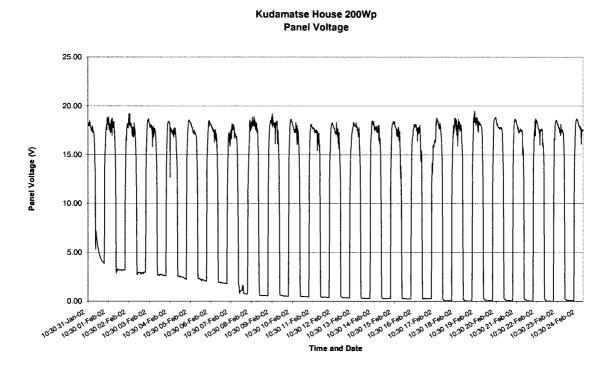




Kudamatse House 200Wp Battery Voltage

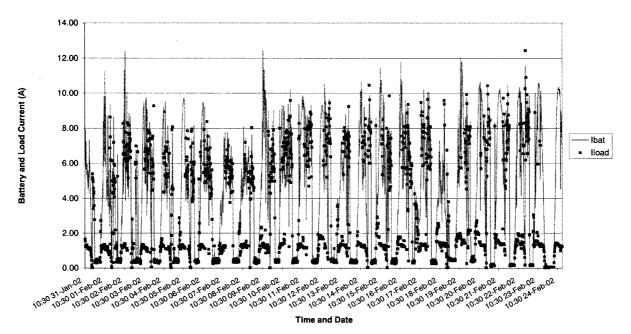


- * Average battery voltage drops due to over-usage of the system (Appendix Figure 8.3-19). Later on the battery voltage increased again (not shown here).
- * Maximum panel voltage is approximately 18V, influence of moon is visible (Appendix Figure 8.3-20).





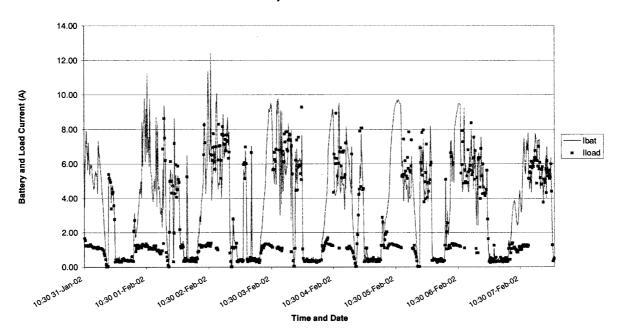
Kudamatse House 200Wp Battery and Load Current



Appendix Figure 8.3-21 Kudumatse House 200Wp Battery and Load Current

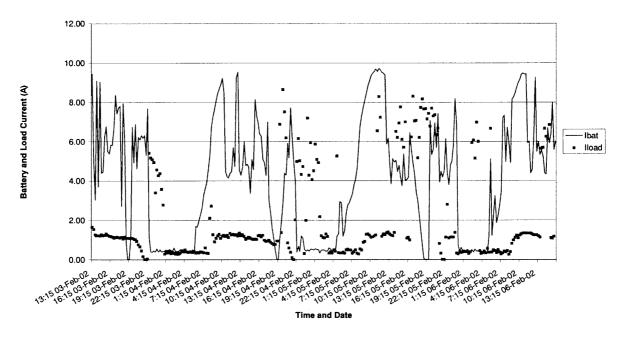
- * Panel current, which is equal to battery current when there is no load, is low for 200Wp system.
- * System is frequently used during daytime, inverter is not switched off (Appendix 8.3-21 and 22).

Kudamatse House 200Wp Battery and Load Current



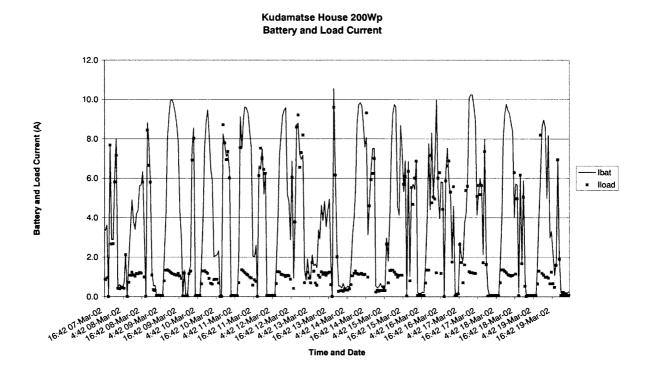
Appendix Figure 8.3-22 Kudumatse House 200Wp Battery and Load Current

Kudamatse House 200Wp Battery and Load Current



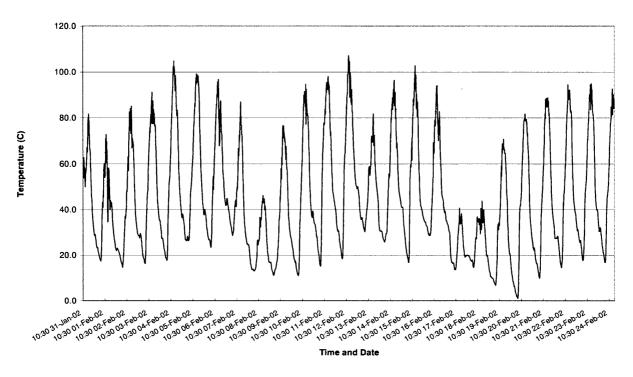


- * System is frequently used during daytime, inverter switched on most of the time (Appendix Figure 8.3-23).
- * Inverter is switched off periodically (Appendix Figure 8.3-24).



Appendix Figure 8.3-24 Kudumatse House 200Wp Battery and Load Current

Kudamatse House 200Wp Temperature





Observations: Large fluctuation between day and night temperatures