



PV Solar Installation

Bishop's House

Sunyani / Ghana, December 2018



Installation Description

The solar installation is a DC-coupled solar system with an inverter / charger from Victron which is also connected to the electric grid.

Connection, 3 strings with 6 modules of 80W each, $6 \times 21.6V = 129.6V$. For the battery bank we used 16 pieces of batteries each 12V / 100Ah, 4 strings with 4 batteries each.

The only small challenge we faced was the installation of 16 batteries with 12V / 100Ah. It would have been easier and faster to have batteries with a bigger capacity to reduce the wiring installation.

Facts

Location

Sunyani the capital of Bono Region in Ghana

Installation Date

December 2018

End Users

The Catholic Bishop of the diocese of Sunyani

Technical Data

- Batteries, 12V / 100Ah, 16 pcs, total 19.2kWh.
- 1 Victron Charge Controller, 150V / 60A.
- Inverter / Charger, Victron MultiPlus 48V / 3000VA, 1 pcs.
- Solar Modules, 18pcs, 80Wp, total 1,440Wp.



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