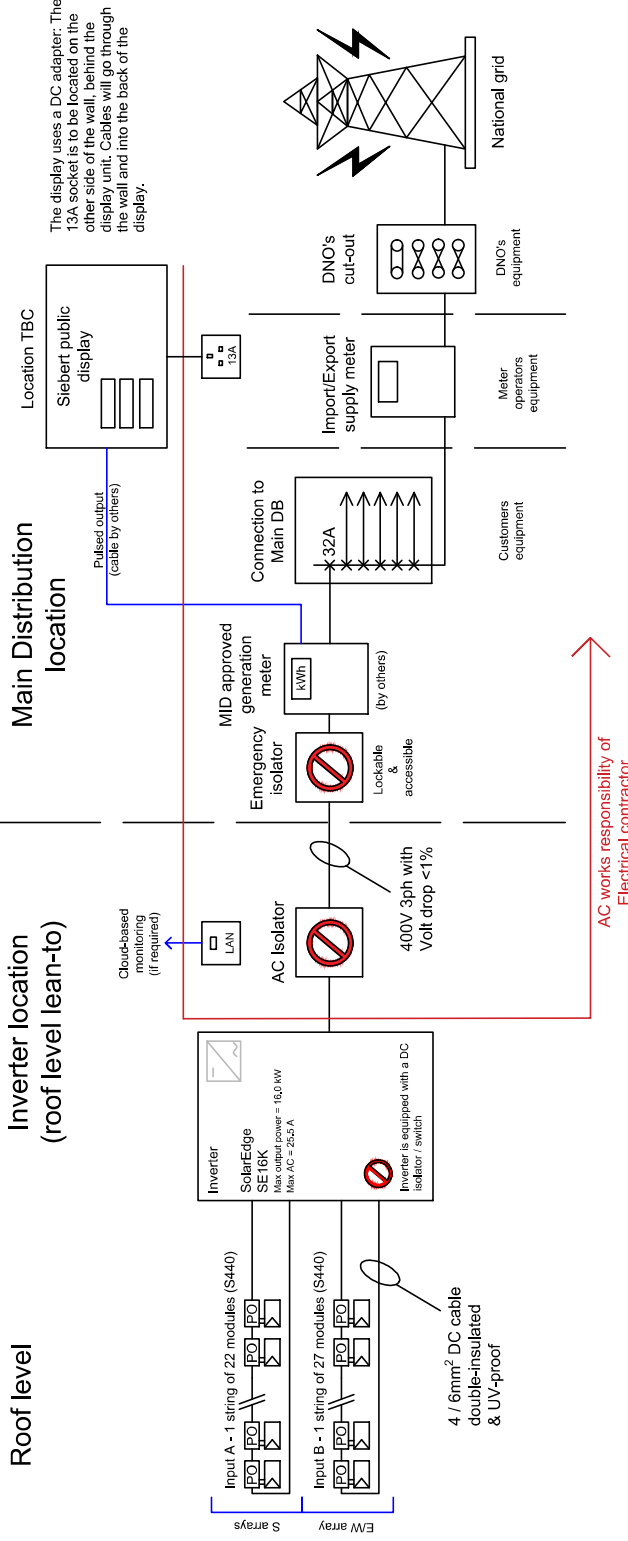


PV System Electrical Schematic
49 x Canadian Solar 410 Wp monocrystalline modules
20.09 kWp Total



The display uses a DC adapter. The 13A socket is to be located on the other side of the wall, behind the display unit. Cables will go through the wall and into the back of the display.

MANUAL START / STOP PROCEDURE

This solar generator can be isolated at any time using any of the switches provided. For general isolation it is recommended to switch the system off at the main AC isolator. This is a red and yellow rotary switch labelled; **PV SYSTEM - POINT OF EMERGENCY ISOLATION**. This switch can be secured with a padlock in the off position. The system will automatically restart (after a 3 minute delay) when switched back on.

AUTOMATIC ISOLATION

- OVERVOLTAGE Stage 1 262.2 V
- OVERVOLTAGE Stage 2 273.7 V
- UNDERVOLTAGE 184 V
- OVERFREQUENCY 52 Hz
- UNDERFREQUENCY 47Hz
- LOSS OF MAINS (ROCOF)

IMPORTANT:

1. The emergency isolator at the CCU area must be lockable in the off position only.
2. To avoid nuisance RCD tripping, the PV system should be connected to the un-protected circuits on the CCU. This means that the accable run design should be of a method not requiring RCD protection under BS7671.
3. In order to operate, the kWh generation meter should be wired with the 'mains' side being the PV system, and the 'load' being the CCU side. **This is the reverse of how meters are wired in conventional situations.**

Ref: VINE4484.05 Schematic

Drawn by GP 07/08/2023

Vine Hill Hotel
 Clerkenwell
 London
 EC1R 5LB



Little Willow
 Upper Anstey Lane
 Alton GU34 4BP
 020 8789 4717
 www.solsticeenergy.co.uk