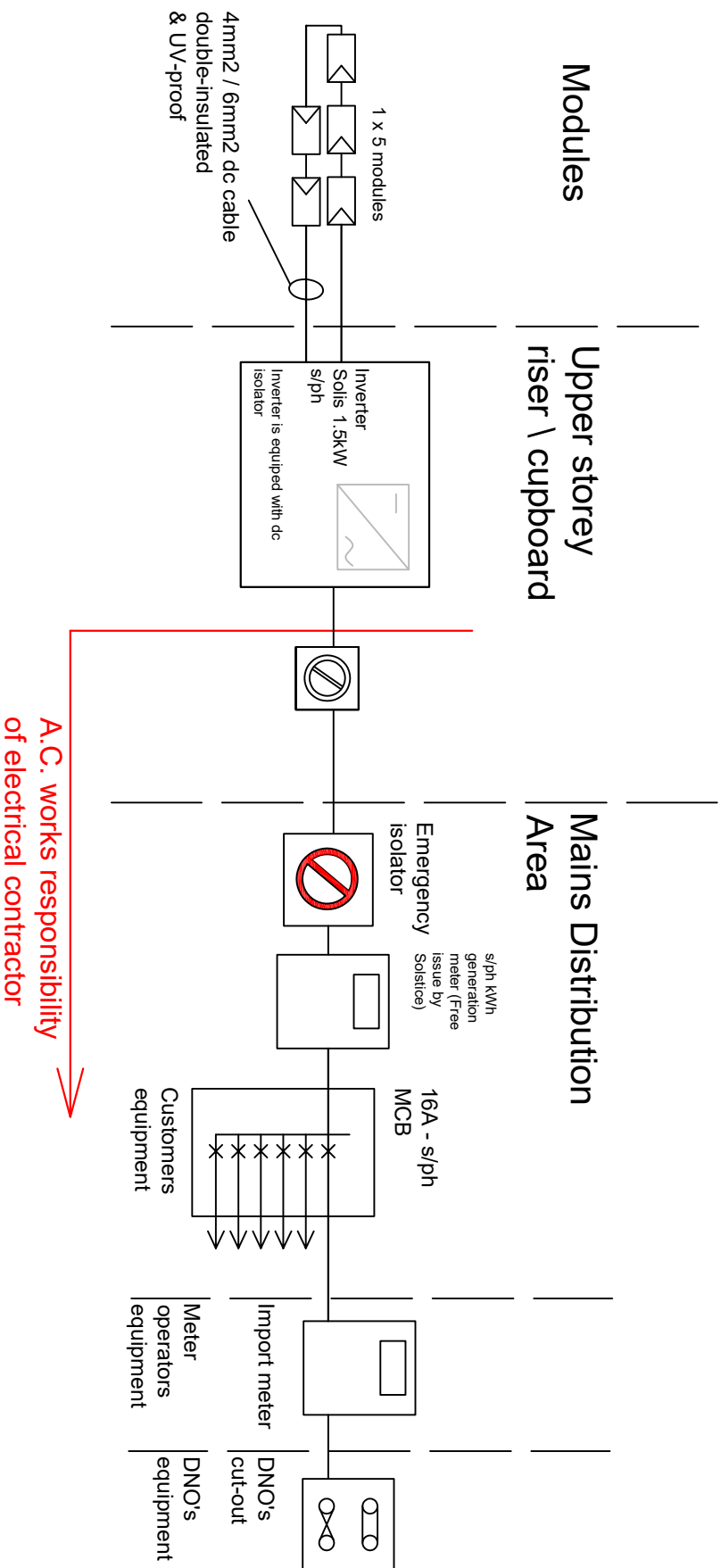


PV System Electrical Schematic

5 x Canadian Solar 325W polycrystalline module

1.63kWp Total



Modules

**Upper storey
riser \ cupboard**

**Mains Distribution
Area**

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 264V
- UNDERVOLTAGE 207V
- OVERFREQUENCY 50.5Hz
- 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 ac cable 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 SOUT 3728 schematic rev1

Drawn by RW 21-11-17

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