13kWp

Status	Date:	Description:
A	30/06/2016	ISSUED FOR APPROVAL

FOR APPROVAL

Project:
CAMDEN ROAD
CAMDEN TOWN
LONDON
NW1 9EU

Title:
SITE PLAN

Scale: N.T.S @ A3

DO NOT SCALE

Project No.: 15213

Drawing Ref.: 15213 PV-000

Date Drawn: 29-06-2016

Drawn by: SE

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SUNTREE 12000TL

INVERTER DETAILS

Height = 585mm
Width = 470mm
Depth = 165mm
IP Rating = IP65

6 - Totally protected against dust

5 - Protection from water projected from a nozzle

SYSTEM STATIC LOAD IN ROOF

52 x 19.5kgs ~ 1,014kgs (PV modules)
279kgs (K2 D-Dome system)
2,100 kgs (Ballast)

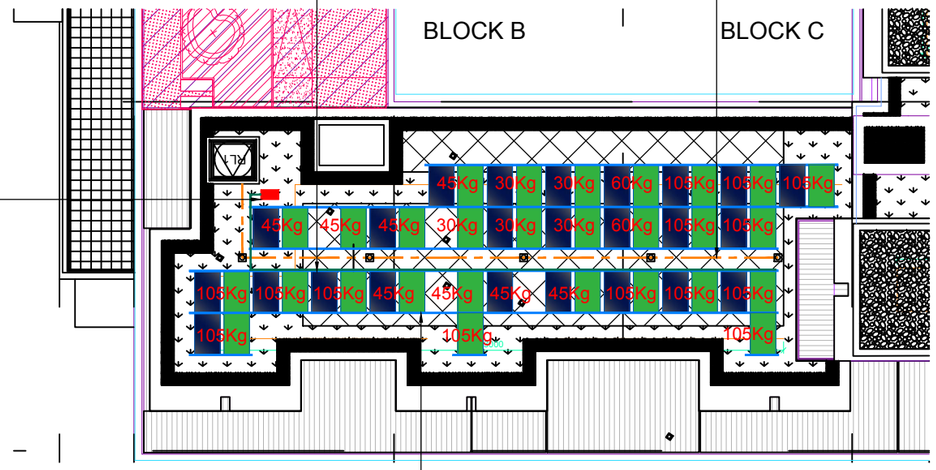
Total System weight = 3,393kgs
Total area of PV System = 97.3m²
Weight per m² = 34.87kgs
Additional applied load of 0.34kN/m²

PV SYSTEM

MOUNTING SYSTEM	K2 D-DOME (EAST/WEST)
INVERTER ~ 1 No. SUNTREE 30000TL	MPP1: 2x12 MPP2: 2x14
MODULE TYPE & OUTPUT	POLYCRYSTALLINE (250W)
MODULE DIMENSIONS (mm)	1640 x 992 x 40mm
MODULES TO DC ISOLATOR (MAX.)	24m of 4mm²
DC ISOLATOR TO INVERTER (MAX.)	1m of 4mm²
INVERTER TO MCB BOARD (MAX.)	25m of 4mm²
TOTAL No. OF MODULES	52
Max. Amps per AC Phase	18.79A
SYSTEM SIZE	13kWp

DC CABLE TRAY ROUTE FROM ARRAYS TO INVERTER. FINAL ROUTE TO BE COORDINATED ON SITE

INDICATIVE MAN SAFE LINE (BY OTHERS)

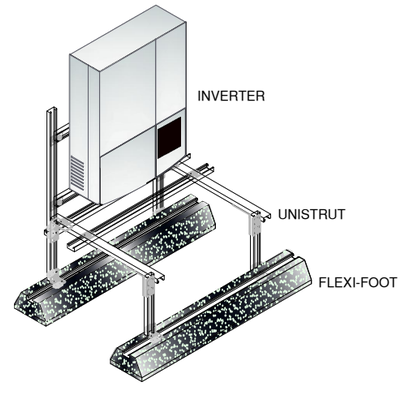


THE INVERTER IS MOUNTED ON ROOF IN AN ACCESSIBLE LOCATION. AC CABLES FROM AC ISOLATOR ADJACENT TO THE INVERTER TO THE MCB SHALL BE BY THE ELECTRICAL CONTRACTOR. MCB LOCATIONS T.B.C.
HOLE THROUGH ROOF AND WEATHERING BY OTHERS.

PV SYSTEM INDICATED HAS 52 x 250W POLY MODULES MOUNTED WITH K2 D-DOME SYSTEM. MODULES GRID CONNECTED VIA 1 No. SUNTREE 12000TL THREE PHASE INVERTER (MPP1 - 2x12, MPP2 - 2x14).

EAST/WEST SYSTEM

250W POLY MODULE



EXTERNAL INVERTER MOUNTING DETAIL
SCALE N.T.S

NOTES:

1.0. INVERTER LOCATED ON ROOF, FINAL LOCATION TO BE CONFIRMED ON SITE.

2.0. CABLES TO RUN FROM ROOF LEVEL AND PENETRATE ROOF AT POINT DETERMINED ON SITE.
PENETRATION THROUGH ROOF AND WEATHERING BY OTHERS

3.0. MAXIMUM DC CABLE LENGTH IS FROM FINAL MODULE IN STRING TO INVERTER.

4.0. ALL CABLE DISTANCES TO BE VERIFIED BY SITE VISIT PRIOR TO WORK ON SITE COMMENCING

5.0. THE POSITION OF PV MODULES SHOWN ON ROOF IS APPROXIMATE. THE EXACT LOCATION TO BE MEASURED & DETERMINED ON SITE ACCORDING TO THE MANUFACTURES RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.

6.0. ALL ROOF AND EXTERNAL WALL PENETRATIONS (e.g. FOR PV MODULES, CABLES OR BRACKETRY) WILL BE DURABLY SEALED USING PURPOSE-MADE PRODUCTS CAPABLE OF ACCOMMODATING THE MOVEMENT AND TEMPERATURES TO WHICH THEY MAY BE SUBJECTED.

7.0 ELECTRICAL CONTRACTOR TO CONFIRM ELECTRICAL INSTALLATION IS SUITABLE TO RECEIVE ELECTRICITY GENERATED BY THE PV INSTALLATION AS PER ECOLUTION DESIGN.

8.0. STRUCTURAL ENGINEER TO APPROVE ROOF STRUCTURE IS CAPABLE OF WITHSTANDING THE LOADS (STATIC & WIND) THAT WILL BE IMPOSED BY THE PV MODULES AND THEIR MOUNTING ARRANGEMENT AS PER OUR DESIGN.

9.0. TO BE READ IN CONJUNCTION WITH ELECTRICAL SCHEMATICS

10.0 THE FINAL POSITION OF THE PV MODULES MAY BE AFFECTED BY THE SVP & OTHER ROOF TOP TERMINATION POINTS. PLEASE CHECK THE LOCATION OF THE SVP's & OTHER ROOF TOP TERMINATIONS SHOWN ON THE LAYOUT DRAWINGS AND THEIR ACCURACY AS IT MAY AFFECT THE PV SYSTEM SIZE AND EFFICIENCY IF MODULES HAVE TO BE REMOVED OR RELOCATED.

11.0 THE FINAL POSITION OF THE PV MODULES MAY BE AFFECTED BY THE MAN SAFE SYSTEM IF ONE IS PRESENT. PLEASE CHECK THE LOCATION OF THE MAN SAFE IF ONE IS INDICATED ON THE LAYOUT DRAWINGS AND THE ACCURACY OF ITS POSITION AS IT MAY AFFECT THE PV SYSTEM SIZE AND EFFICIENCY IF MODULES HAVE TO BE REMOVED OR RELOCATED.

12.0.TO BE READ IN CONJUNCTION WITH ELECTRICAL SCHEMATIC.

13.0. SEE PV-000 FOR SITE PLAN

Status	Date:	Description:
A	30/06/2016	ISSUED FOR APPROVAL
A1	26/07/2016	ISSUED FOR APPROVAL

FOR APPROVAL

Project:
CAMDEN ROAD
CAMDEN TOWN
LONDON
NW1 9EU

Title:
PV PLAN LAYOUT

Scale: 1:250 @ A3 | DO NOT SCALE

Project No.: 15213 | Drawing Ref.: 15213 PV-001 | Date Drawn: 29-06-2016 | Drawn by: SE

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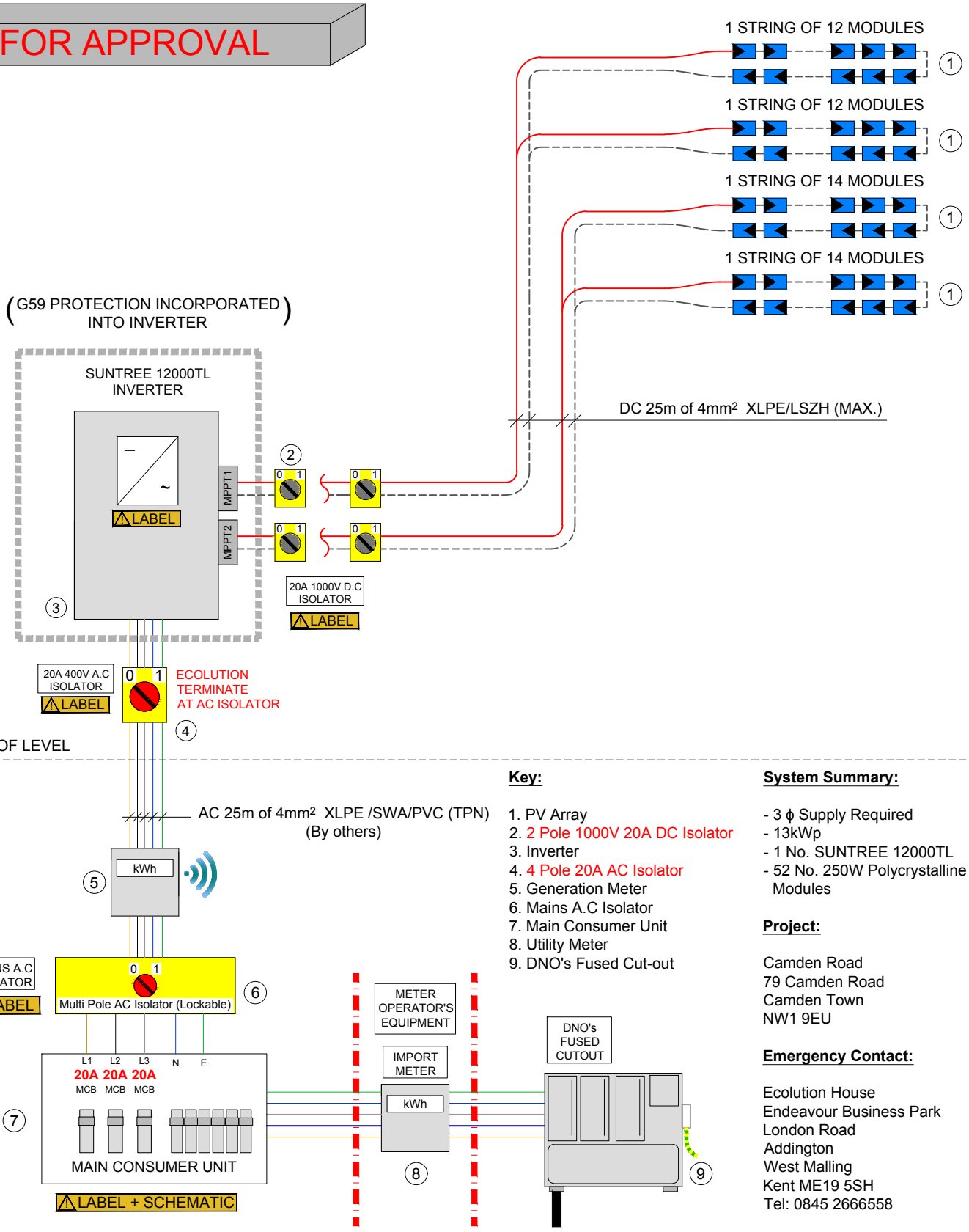
A1	26/07/2016	ISSUED FOR APPROVAL

FOR APPROVAL



Key:

1. PV Array
2. 2 Pole 1000V 20A DC Isolator
3. Inverter
4. 4 Pole 20A AC Isolator
5. Generation Meter
6. Mains A.C Isolator
7. Main Consumer Unit
8. Utility Meter
9. DNO's Fused Cut-out

System Summary:

- 3 ϕ Supply Required
- 13kWp
- 1 No. SUNTREE 12000TL
- 52 No. 250W Polycrystalline Modules

Project:

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79 Camden Road
Camden Town
NW1 9EU

Emergency Contact:

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ELECTRICAL RISER CUPBOARD (GF)

Title:
PV Electrical Schematic

Drawing Ref.:
15213 PVES-003

Date Drawn:
29/6/2016

Drawn by:
JA

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