



Bimble Solar

Tel.: 02081330076

E-Mail: info@bimblesolar.com

Internet: www.bimblesolar.com

Project name: 50kw innotech grid

Location: United Kingdom / London

Project number: ---

Grid voltage: 240V (240V / 415V)

System overview

208 x Innotech Solar EcoPlus-Poly-250 (UL) (08/2013) (PV array 1)

Azimuth angle: 0 °, Inclination: 30 °, Mounting type: Roof, PV peak power: 52.00 kWp

 **2 x STP 25000TL-30**

Technical data

Total number of PV modules:	208	Annual energy yield (approx.):*	49,219.40 kWh
PV peak power:	52.00 kWp	Energy usability factor:	99.5 %
Number of inverters:	2	Performance ratio (approx.):*	87.2 %
Nominal AC power:	50.00 kW	Spec. energy yield (approx.):*	947 kWh/kWp
AC active power:	50.00 kW	Line losses (in % of PV energy):	---
Active power ratio:	96.2 %	Unbalanced load:	0.00 VA

Version: 3.20.2.R

Signature

*Important: The yield values displayed are estimates. They are determined mathematically. SMA Solar Technology AG accepts no responsibility for the real yield value which can deviate from the yield values displayed here. Reasons for deviations are various external conditions, such as soiling of the PV modules or fluctuations in the efficiency of the PV modules.

Evaluation of design

Project name: 50kw innotech grid

Project number:

Location: United Kingdom / London

Ambient temperature:


Annual extreme low temperature: -4 °C

Average high Temperature: 15 °C

Annual extreme high temperature: 29 °C

Part project 1

2 x STP 25000TL-30

PV peak power:	52.00 kWp
Total number of PV modules:	208
Number of inverters:	2
Max. DC power (cos φ = 1):	25.55 kW
Max. AC active power (cos φ = 1):	25.00 kW
Grid voltage:	240V (240V / 415V)
Nominal power ratio:	98 % 
Displacement power factor cos φ:	1



STP 25000TL-30






Technical data

Input A: PV array 1

52 x Innotech Solar EcoPlus-Poly-250 (UL) (08/2013), Azimuth angle: 0 °, Inclination: 30 °, Mounting type: Roof

Input B: PV array 1

52 x Innotech Solar EcoPlus-Poly-250 (UL) (08/2013), Azimuth angle: 0 °, Inclination: 30 °, Mounting type: Roof

	Input A:	Input B:	
Number of strings:	4	4	
PV modules per string:	13	13	
Peak power (input):	13.00 kWp	13.00 kWp	
Typical PV voltage:	 381 V	 381 V	
Min. PV voltage:	350 V	350 V	
Min. DC voltage (Grid voltage 240 V):	367 V	367 V	
Max. PV voltage:	 535 V	 535 V	
Max. DC voltage:	600 V	600 V	
Max. current of PV array:	 32.4 A	 32.4 A	
Max. DC current:	33 A	33 A	

PV/Inverter compatible

Version: 3.20.2.R

Information


Project name: 50kw innotech grid

Location: United Kingdom / London

Project number:

 **50kw innotech grid**

 **Part project 1**

 **2 x STP 25000TL-30**

The number of strings exceeds the number of connections at the inverter input. In this case, suitable measures must be taken to connect the strings, e.g. Y adapters. Take care to observe the conditions for connecting strings to the respective inverter (see installation manual of the inverter).

Version: 3.20.2.R