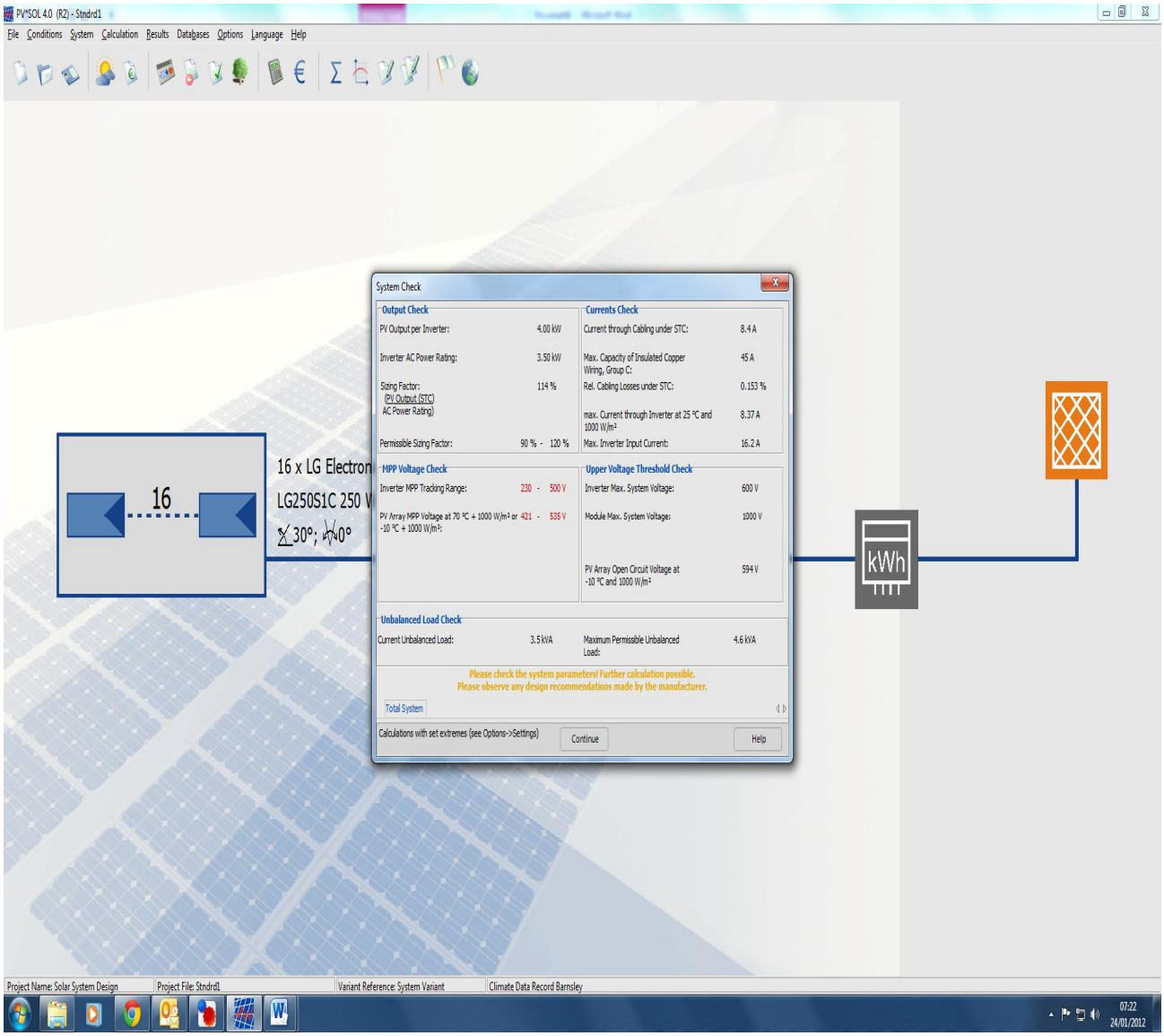
PV*SOL 4.0 (R2) - Stndrd1
File Conditions System Calculation Results Databases Options Language Help
16
16 x LG Electron
LG250S1C 250 V
30°; 0°
System Check
Output Check
PV Output per Inverter: 4.00 kW
Inverter AC Power Rating: 3.50 kW
Sizing Factor: (PV Output (STC) / AC Power Rating) 114 %
Permissible Sizing Factor: 90 % - 120 %
Currents Check
Current through Cabling under STC: 8.4 A
Max. Capacity of Insulated Copper Wiring, Group C: 45 A
Rel. Cabling Losses under STC: 0.153 %
max. Current through Inverter at 25 °C and 1000 W/m²: 8.37 A
Max. Inverter Input Current: 16.2 A
MPP Voltage Check
Inverter MPP Tracking Range: 230 - 500 V
PV Array MPP Voltage at 70 °C + 1000 W/m² or -10 °C + 1000 W/m²: 421 - 535 V
Upper Voltage Threshold Check
Inverter Max. System Voltage: 600 V
Module Max. System Voltage: 1000 V
PV Array Open Circuit Voltage at -10 °C and 1000 W/m²: 594 V
Unbalanced Load Check
Current Unbalanced Load: 3.5 kVA
Maximum Permissible Unbalanced Load: 4.6 kVA
Please check the system parameters! Further calculation possible.
Please observe any design recommendations made by the manufacturer.
Total System
Calculations with set extremes (see Options->Settings)
Continue
Help
kWh
Project Name: Solar System Design
Project File: Stndrd1
Variant Reference: System Variant
Climate Data Record Barnsley
07:22
24/01/2012