



NZEB_LAB

PV: Test of PV modules under on-site natural conditions

DESCRIPTION OF THE INFRASTRUCTURE

Name of the infrastructure: NZEB_LAB
Location (town, country): LNEG, Polo do Lumiar, Lisbon, Portugal
Web-site: www.lneg.pt
Legal name of the organization operating the infrastructure: LNEG
Location:

SERVICE PROVIDED

Service Name: Test of PV modules under on-site natural conditions



Associated equipment:

- Curve tracers PVP6020C; PVP601040C
- Back surface temperature sensors
- Irradiance sensors: PV reference cells and pyranometers

Method:

- Test of PV modules, strings or arrays: Measurement of photovoltaic current-voltage (I-V Curve) characteristics under on-site conditions and their translation to standard test conditions (STC).
- For a particular module, on-site measurements translated to STC can be directly compared with results previously obtained in a laboratory or factory.

IEC 60904-1 Photovoltaic devices – Part 1: Measurement of photovoltaic current-voltage characteristics
IEC 61829, Photovoltaic (PV) Array – On-site measurement of current-voltage characteristics

Deliverables:

Test report with measured performance characteristics and performance characteristics expected under Standard Test Conditions. Includes the description of the test environment, weather conditions, location of sensors and possible sources of errors (reflections, shadings, ...)

Testing period (weeks/year):

To be defined

Costs:

On request

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