

LIST OF USED ACRONYMS

| Acronym | Description |
|---------|--|
| ACS | Accessibility |
| BEND | Conduit Bending |
| BOX | Terminal Box Knock Out |
| BREAK | Module Breakage |
| BYT | Bypass Diode |
| CPV | Performance of CPV modules |
| CUT | Cut Susceptibility |
| DAH | Damp Heat |
| DSC | Partial Discharge |
| EL | Electroluminescence |
| ER | Energy rating |
| FIRE | Fire |
| GCO | Performance at different G |
| GRD | Ground Continuity |
| HAR | Hail test |
| HSP_215 | Hot-Spot Endurance test for c-Si modules |
| HSP_646 | Hot-Spot Endurance test for thin-film modules |
| HUF | Humidity Freeze Test |
| IMP | Impulse Voltage |
| IN | Insulation test (IEC 61215: dielectric withstand test) |
| IR | Infrared |
| LS | Light Soaking |
| MATR | IV curve at different G and T |
| MEL | Mechanical Load |
| NOCT | Nominal Operating Cell Temperature |
| OE | Outdoor Exposure |
| PID | Potential Induce Degradation |
| PL | Performance at Low Irradiance |
| PM | Performance at STC |
| PM400 | Performance at 400 W/m ² |
| PM_NOCT | Performance at NOCT |
| PM_OUT | Performance Outdoor with MPPT3K |
| PRE | Preconditioning |
| REV | Reverse Current Overload |
| ROB | Robustness of Termination |
| SR | Spectral Response |
| TC | Thermal Cycling |
| TCO | Measurement of Temperature Coefficients |
| TEMP | Temperature |
| UV | UV Preconditioning |
| VI | Visual Inspection |

| | |
|----|---------------------|
| WL | Wet Leakage Current |
|----|---------------------|

ISO 17025 ACCREDITED TEST PROCEDURES

Accreditation number

STS 531

Accreditation standard ISO/IEC

17025:2005

| Group of product or material, field of activity | Principle of measurement (²) (characteristics, measuring ranges, type of test) | Test method, remarks (national, international standards, validated in-house test methods) |
|--|--|--|
| PV module test: Electrical performance (*) | Performance at standard test conditions (STC) Performance at nominal operating cell temperature (NOCT) Performance at low irradiance (LIC) Performance at high temperature conditions (HTC) Performance at low temperature conditions (LTC) Measurement of temperature coefficients | IEC 60904-1 IEC 61215, 10.2 IEC 61646, 10.2 IEC 61853-1, 7.2 EN 50380, 3.3.1 IEC 61215, 10.6 IEC 61646, 10.6 IEC 61853-1, 7.3 EN 50380, 3.3.2 IEC 61215, 10.7 IEC 61646, 10.7 IEC 61853-1, 7.4 EN 50380, 3.3.3 IEC 61853-1, 7.5 IEC 61853-1, 7.6 IEC 61215, 10.4 IEC 61646, 10.4 IEC 61853-1, Cpt. 8 EN 50380, 3.5.2 |

(*) The accreditation refers to crystalline silicon and thin-film single junction test devices

1) Type A: It is not allowed to change the scope

2) Type B: Optimizing defined test methods (adapt to client's needs, adapted standard) is allowed

3) Type C: Introduction of additional test methods for the different types of test is allowed

ISO 17025 ACCREDITED TEST PROCEDURES

| Group of product or material, field of activity | Principle of measurement (²) (characteristics, measuring ranges, type of test) | Test method, remarks (national, international standards, validated in-house test methods) |
|---|---|--|
| PV module test: Electrical performance (*) | Irradiance dependency Irradiance and temperature performance measurements Spectral response of single junction PV cells or modules | IEC 61853-1, Cpt.8 IEC 61853-1, Cpt.8 EN 50380, 3.5.2 IEC 60904-8 |
| PV module test: Lifetime and safety | Preconditioning Visual inspection Insulation test Dielectric withstand test Nominal operating cell temperature determination Outdoor exposure test Thermal cycling test (50/100 cycles) | IEC 61215, Cpt.5 IEC 61853-1, Cpt.5 IEC 61215, 10.1 IEC 61646, 10.1 IEC 61730-2, MST 01 IEC 61215, 10.3 IEC 61646, 10.3 IEC 61730-2, MST 16 IEC 61215, 10.5 IEC 61646, 10.5 IEC 61853-1, 7.3 EN 50380, 3.5.1 IEC 61215, 10.8 IEC 61646, 10.8 IEC 61215, 10.11 IEC 61646, 10.11 IEC 61730-2, MST 51 |

(*) The accreditation refers to crystalline silicon and thin-film single junction test devices

- 1) Type A: It is not allowed to change the scope
- 2) Type B: Optimizing defined test methods (adapt to client's needs, adapted standard) is allowed
- 3) Type C: Introduction of additional test methods for the different types of test is allowed

ISO 17025 ACCREDITED TEST PROCEDURES

| Group of product or material, field of activity | Principle of measurement (2) (characteristics, measuring ranges, type of test) | Test method, remarks (national, international standards, validated in-house test methods) |
|--|--|--|
| PV module test: Lifetime and safety | Humidity freeze test (10 cycles) Damp heat Robustness of termination test Wet leakage current test Mechanical load test Hail test Hail test for other classes Hot-spot endurance test Bypass diode thermal test Light soaking | IEC 61215, 10.12 IEC 61646, 10.12 IEC 61730-2, MST 52 IEC 61215, 10.13 IEC 61646, 10.13 IEC 61730-2, MST 53 IEC 61215, 10.14 IEC 61646, 10.14 IEC 61730-2, MST 42 IEC 61215, 10.15 IEC 61646, 10.15 IEC 61730-2, MST 17 IEC 61215, 10.16 IEC 61646, 10.16 IEC 61730-2, MST 34 IEC 61215, 10.17 IEC 61646, 10.17 IEC 61215, 10.17 IEC 61646, 10.17 VKF Prüfbestimmung Nr. 25 IEC 61215, 10.9 IEC 61730-2, MST 22 IEC 61215, 10.18 IEC 61646, 10.18 IEC 61730-2, MST 25 IEC 61646, 10.19 IEC 61853-1, Cpt. 5 |

1) Type A: It is not allowed to change the scope

2) Type B: Optimizing defined test methods (adapt to client's needs, adapted standard) is allowed

3) Type C: Introduction of additional test methods for the different types of test is allowed

ISO 17025 ACCREDITED TEST PROCEDURES

| Group of product or material, field of activity | Principle of measurement (2) (characteristics, measuring ranges, type of test) | Test method, remarks (national, international standards, validated in-house test methods) |
|--|---|---|
| Component test: Safety | Ground continuity test Accessibility test Cut susceptibility test Reverse current overload test Module breakage test Conduit bending test Terminal box knock out test | IEC 61730-2, MST 13 IEC 61730-2, MST 11 IEC 61730-2, MST 12 IEC 61730-2, MST 26 IEC 61730-2, MST 32 IEC 61730-2, MST 33 IEC 61730-2, MST 44 |

1) Type A: It is not allowed to change the scope

2) Type B: Optimizing defined test methods (adapt to client's needs, adapted standard) is allowed

3) Type C: Introduction of additional test methods for the different types of test is allowed

SPECIAL TESTS (NOT ACCREDITED ISO17025)

| Group of product or material, field of activity | Principle of measurement (characteristics, measuring ranges, type of test) | Test method, remarks (national, international standards, validated in-house test methods) |
|---|---|---|
| PV module test: Electrical performance PV module test: Lifetime and safety | Performance of CPV modules Energy yield Electroluminescence Infrared imaging | |

IDENTIFICATION OF MODULES

Manufacturer: Pramac

Module type:

| | |
|---------------|--------|
| OVERALL TEST: | PASSED |
|---------------|--------|

| MODULES IDENTIFICATION | |
|------------------------|----------------|
| SERIAL NUMBER | INTERNAL LABEL |
| 110925000401000119 | 13-170/C/1 |
| 110925000337000120 | 13-170/C/2 |

SERVICE INFORMATION

Order number: 13-170
Order date: 08.10.2013
Sample receipt date: 11.10.2013
Test period : 17.10.2013 - 19.11.2013

| GENERAL REMARKS |
|-----------------|
| |

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The sampling has been executed by the customer.

MANUFACTURER NAMEPLATE/DATASHEET PARAMETERS

| GENERAL | | |
|-----------------|---------------|------------|
| Model | Luce MCPH P7L | |
| Cell technology | | micromorph |

| MECHANICAL FEATURES | | SOURCE |
|-----------------------------|-----------------------|--------|
| Module length | 110 cm | DS |
| Module height | 130 cm | DS |
| Number of cells in parallel | 3 | DS |
| Number of cells in series | 55 | DS |
| Single cell area | 75.72 cm ² | DS |

| ELECTRICAL FEATURES | | SOURCE |
|-----------------------------|----------|--------|
| Security class | Class II | NP |
| Maximum power (Pm) | 120 W | NP |
| Open circuit voltage (Voc) | 72 V | NP |
| Short circuit current (Isc) | 2.66 A | NP |
| Maximum power voltage (Vm) | 54.4 V | NP |
| Maximum power current (Im) | 2.2 A | NP |
| Maximum system voltage | 1000 V | NP |
| Pm minimum tolerance | -2.5 % | NP |
| Pm maximum tolerance | 2.5 % | NP |

| TEMPERATURE FEATURES | SOURCE |
|----------------------|--------|
| | |

LEGEND:

DS: datasheet
 NP: nameplate

DETAILED TECHNICAL CHARACTERISTICS

CELLS

BYPASS DIODES

INTERCONNECTION

FRAME

JUNCTION BOX

SUPERSTRATE

SUBSTRATE

ENCAPSULANT

TEST SEQUENCE

| | | |
|---------|--------------------|------------------|
| Legend: | Green: test passed | Red: test failed |
|---------|--------------------|------------------|

| MODULE 13-170/C/1 | MODULE 13-170/C/2 |
|----------------------|----------------------|
| WL 17.10.2013 | WL 17.10.2013 |
| IR 13.11.2013 | IR 13.11.2013 |
| PM 13.11.2013 | PM 13.11.2013 |
| LS 13.11.2013 | LS 13.11.2013 |
| PM 19.11.2013 | PM 19.11.2013 |

MODULE 13-170/C/1

TEST RESULTS

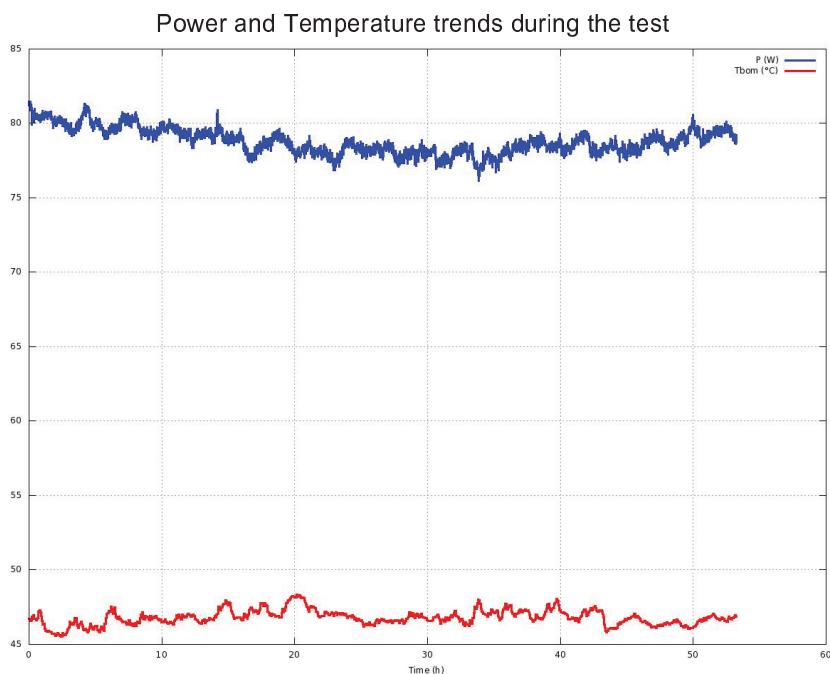
| GENERAL INFORMATION | |
|----------------------------|--------------------|
| Manufacturer | Pramac |
| Module label | 13-170/C/1 |
| Type | Luce MCPH P7L |
| Serial number | 110925000401000119 |
| REMARKS | |
| | |

LIGHT SOAKING

| GENERAL INFORMATION | | | |
|----------------------|--------------------|----------------------|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/1 |
| Type | Luce MCPH P7L | Starting date | 13.11.2013 |
| Serial Number | 110925000401000119 | Ending date | 18.11.2013 |
| Result: | PASSED | | Notes: |

| UNCERTAINTY | |
|--------------------|----------------------------|
| MPPT = \pm 1.5 % | Temperature = \pm 0.5 °C |

| REMARKS |
|--|
| The module was subject to an irradiation of 1000 W/m ² for 115 hours in MPP tracking. |



ELECTRICAL PERFORMANCE SUMMARY

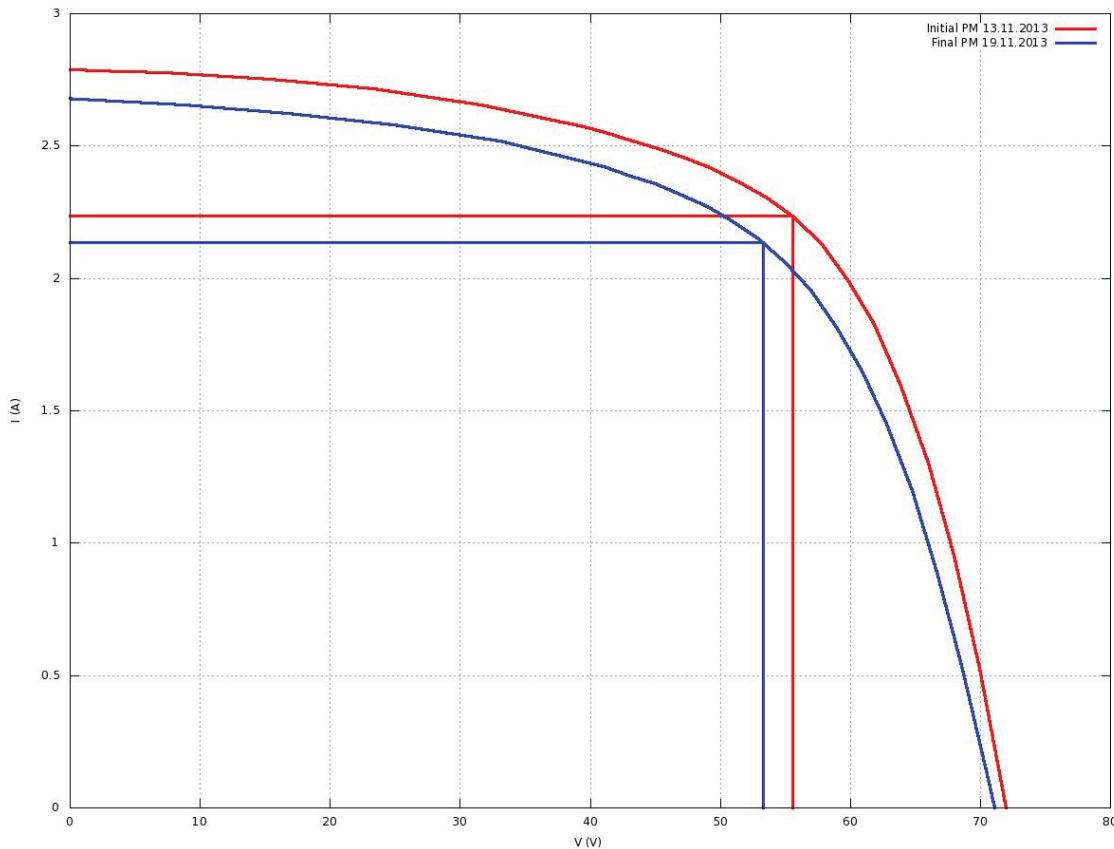
| GENERAL INFORMATION | |
|----------------------|---|
| Manufacturer | Pramac |
| Module Label | 13-170/C/1 |
| Type | Luce MCPH P7L |
| Serial Number | 110925000401000119 |
| Notes: | All the values are corrected to 1000 W/m ² |

| SUMMARY OF PERFORMANCES RESULTS (Pm=Pm-Pm(previous)) | | | | | | | | |
|--|---------|--------|---------|---------|---------|--------|--------|--------|
| Date | After | Pm [W] | ΔPm [%] | Voc [V] | Isc [A] | Vm [V] | Im [A] | FF [%] |
| 13.11.2013 | INITIAL | 124.20 | 0.00 | 71.99 | 2.788 | 55.57 | 2.235 | 61.9 |
| 19.11.2013 | LS | 113.74 | -8.42 | 71.07 | 2.680 | 53.30 | 2.134 | 59.7 |

ELECTRICAL PERFORMANCE SUMMARY

| GENERAL INFORMATION | |
|----------------------|---|
| Manufacturer | Pramac |
| Module Label | 13-170/C/1 |
| Type | Luce MCPH P7L |
| Serial Number | 110925000401000119 |
| Notes: | All the values are corrected to 1000 W/m ² |

Comparison between first and last measurement



ELECTRICAL PERFORMANCE MEASUREMENT AT STC

| GENERAL INFORMATION | | | |
|----------------------|--------------------|----------------------------|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/1 |
| Type | Luce MCPH P7L | Date of Measurement | 13.11.2013 |
| Serial Number | 110925000401000119 | | |
| Result: | PASSED | Notes: | |

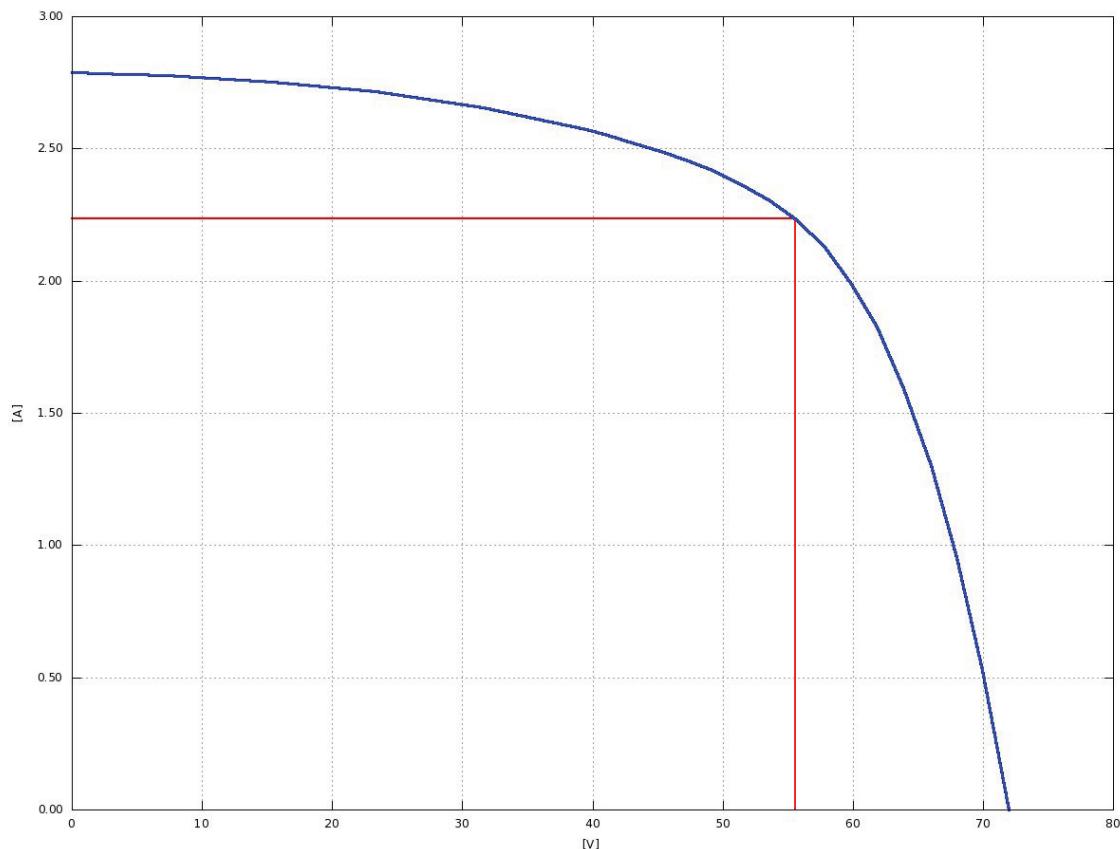
| TEST RESULTS | | | |
|-----------------------------------|-----------------------|---|----------|
| Test conditions | | Values corrected to 1000 W/m ² | |
| Measurement mode | multiflash | Pmax | 124.20 W |
| Reference Cell | 054-2008 | Vmp | 55.57 V |
| Reference Cell Temperature | 25±1 °C | Imp | 2.235 A |
| Module Temperature | 25±1 °C | Voc | 71.99 V |
| Mean Irradiance | 1000 W/m ² | Isc | 2.788 A |
| | | Fill factor | 61.9 % |
| | | Module efficiency | 8.7 % |

| UNCERTAINTY | | | |
|---|--|--|--|
| This measure is not accredited ISO17025 | | | |

| REMARKS | | | |
|---------|--|--|--|
| | | | |

ELECTRICAL PERFORMANCE MEASUREMENT AT STC

| GENERAL INFORMATION | | | |
|----------------------|--------------------|--|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/1 |
| Type | Luce MCPH P7L | Date of Measurement | 13.11.2013 |
| Serial Number | 110925000401000119 | | |
| Result: | PASSED | Notes: All values are corrected to 1000 W/m ² | |



ELECTRICAL PERFORMANCE MEASUREMENT AT STC

| GENERAL INFORMATION | | | |
|----------------------|--------------------|----------------------------|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/1 |
| Type | Luce MCPH P7L | Date of Measurement | 19.11.2013 |
| Serial Number | 110925000401000119 | | |
| Result: | PASSED | Notes: | |

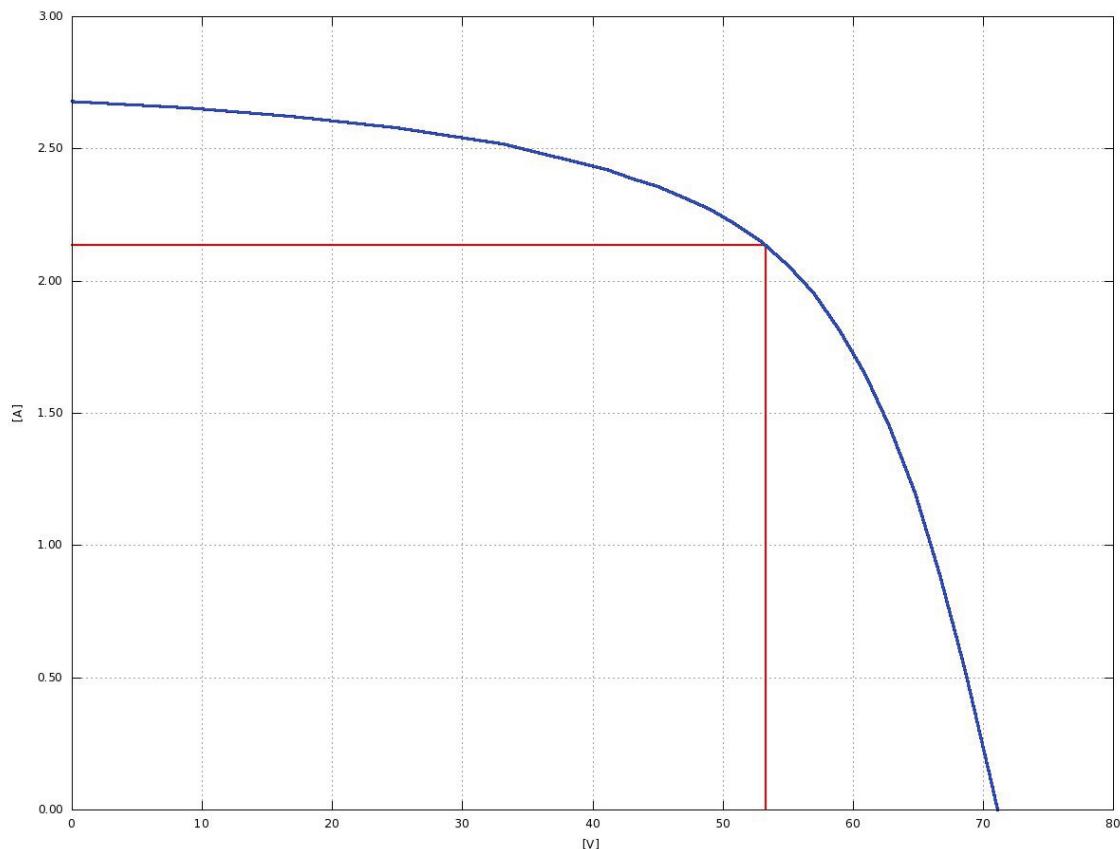
| TEST RESULTS | | | |
|-----------------------------------|-----------------------|---|----------|
| Test conditions | | Values corrected to 1000 W/m ² | |
| Measurement mode | multiflash | Pmax | 113.74 W |
| Reference Cell | 054-2008 | Vmp | 53.30 V |
| Reference Cell Temperature | 25±1 °C | Imp | 2.134 A |
| Module Temperature | 25±1 °C | Voc | 71.07 V |
| Mean Irradiance | 1000 W/m ² | Isc | 2.680 A |
| | | Fill factor | 59.7 % |
| | | Module efficiency | 8.0 % |

| UNCERTAINTY | |
|---|--|
| This measure is not accredited ISO17025 | |

| REMARKS | |
|---------|--|
| | |

ELECTRICAL PERFORMANCE MEASUREMENT AT STC

| GENERAL INFORMATION | | | |
|----------------------|--------------------|--|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/1 |
| Type | Luce MCPH P7L | Date of Measurement | 19.11.2013 |
| Serial Number | 110925000401000119 | | |
| Result: | PASSED | Notes: All values are corrected to 1000 W/m ² | |



WET LEAKAGE SUMMARY

| GENERAL INFORMATION | | | | | |
|----------------------|---------|-----------------------|-----------------------------|-------------------|---------------------|
| Manufacturer | | Pramac | | | |
| Module Label | | 13-170/C/1 | | | |
| Type | | Luce MCPH P7L | | | |
| Serial Number | | 110925000401000119 | | | |
| Notes: | | | | | |
| RESULTS | | | | | |
| Date | After | Insulation resistance | Area resistance | Water temperature | Water conducibility |
| 17.10.2013 | INITIAL | 98.3 Mohm | 141.0 Mohm * m ² | 22.0 °C | 1140.0 µS |

WET LEAKAGE TEST

| GENERAL INFORMATION | | | |
|----------------------|--------------------|----------------------|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/1 |
| Type | Luce MCPH P7L | Starting date | 17.10.2013 |
| Serial Number | 110925000401000119 | Ending date | 17.10.2013 |
| Result: | PASSED | | Notes: |

| TEST RESULTS | |
|------------------------------|---------------------------|
| Insulation resistance | 98.3 Mohm |
| Area resistance | 141 Mohm * m ² |
| Water temperature | 22 °C |
| Water conductivity | 1140 µS |

| UNCERTAINTY |
|----------------------------|
| Total uncertainty = ± 0.8% |

| REMARKS |
|---------|
| |

INFRARED IMAGING SUMMARY

| GENERAL INFORMATION | |
|---------------------|--------------------|
| Manufacturer | Pramac |
| Module Label | 13-170/C/1 |
| Type | Luce MCPH P7L |
| Serial Number | 110925000401000119 |
| Notes: | |

| RESULTS | | |
|------------|---------|---------|
| Date | After | Isc [A] |
| 13.11.2013 | INITIAL | 2.630 |

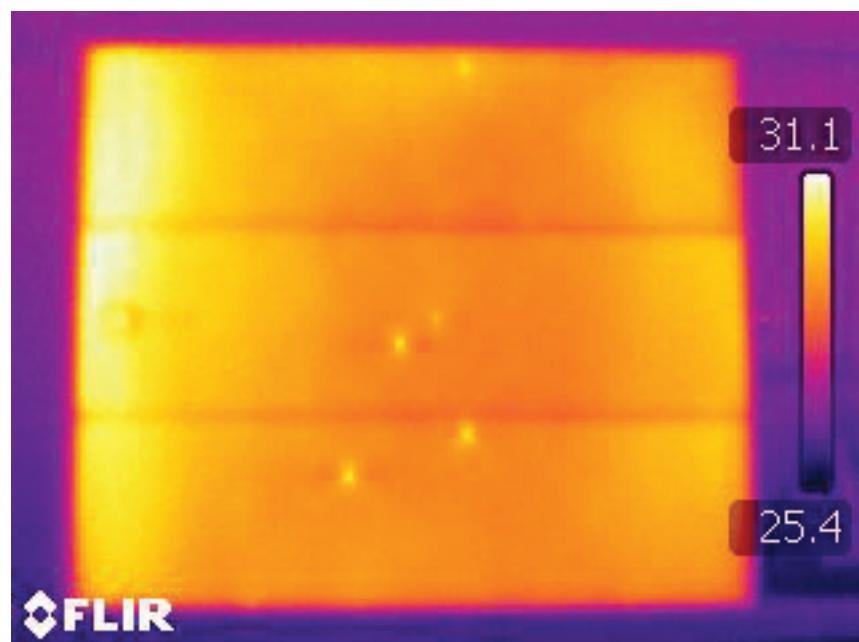
INFRARED

| GENERAL INFORMATION | | | |
|----------------------|--------------------|---|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/1 |
| Type | Luce MCPH P7L | Starting date | 13.11.2013 |
| Serial Number | 110925000401000119 | Ending date | 13.11.2013 |
| Result: | PASSED | Notes: Test current 2.63 A Time ISC 640 s | |

| UNCERTAINTY |
|-------------|
| |

| REMARKS |
|---------|
| |

Picture N° 1



MODULE 13-170/C/2

TEST RESULTS

| GENERAL INFORMATION | |
|----------------------------|--------------------|
| Manufacturer | Pramac |
| Module label | 13-170/C/2 |
| Type | Luce MCPH P7L |
| Serial number | 110925000337000120 |
| REMARKS | |
| | |

LIGHT SOAKING

| GENERAL INFORMATION | | | |
|----------------------|--------------------|----------------------|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/2 |
| Type | Luce MCPH P7L | Starting date | 13.11.2013 |
| Serial Number | 110925000337000120 | Ending date | 18.11.2013 |
| Result: | PASSED | Notes: | |

| UNCERTAINTY | |
|--------------------|----------------------------|
| MPPT = \pm 1.5 % | Temperature = \pm 0.5 °C |

| REMARKS |
|---|
| The module was subject to an irradiation of 1000 W/m ² for 115 hours in Voc. |

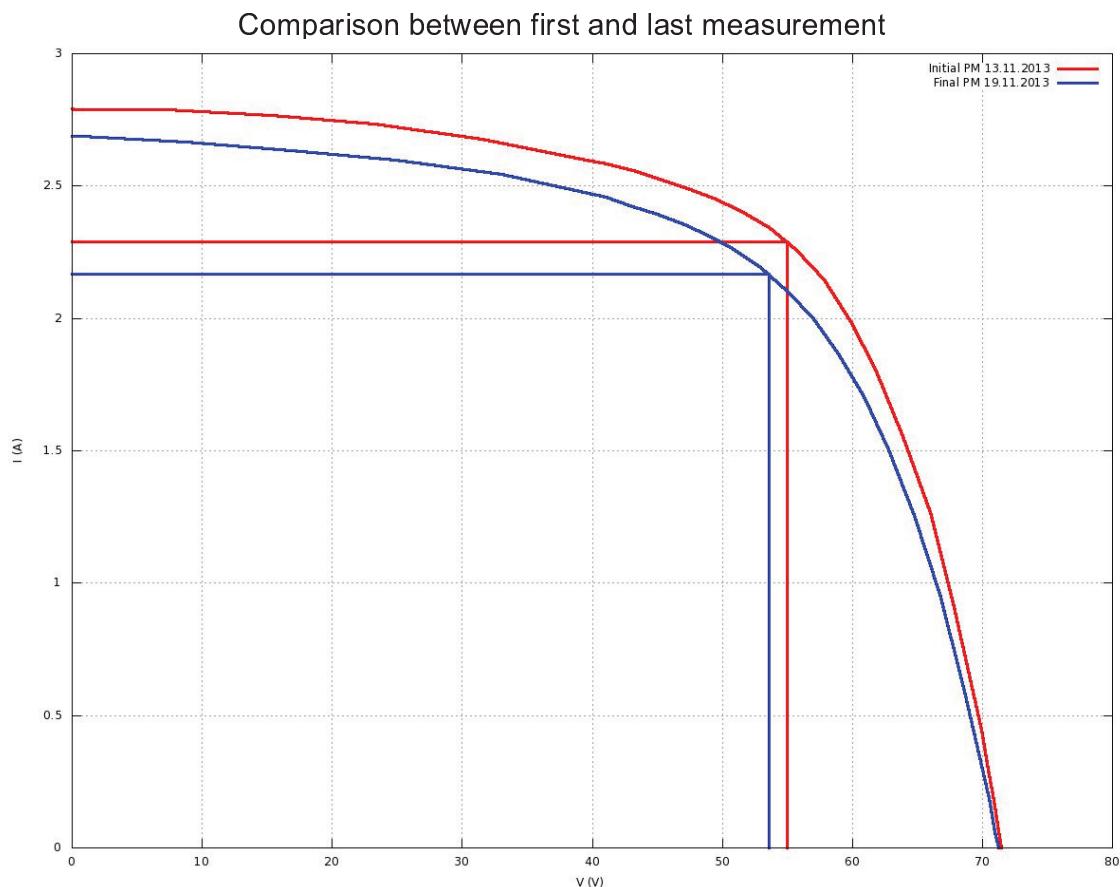
ELECTRICAL PERFORMANCE SUMMARY

| GENERAL INFORMATION | |
|----------------------|---|
| Manufacturer | Pramac |
| Module Label | 13-170/C/2 |
| Type | Luce MCPH P7L |
| Serial Number | 110925000337000120 |
| Notes: | All the values are corrected to 1000 W/m ² |

| SUMMARY OF PERFORMANCES RESULTS (Pm=Pm-Pm(previous)) | | | | | | | | |
|--|---------|--------|---------|---------|---------|--------|--------|--------|
| Date | After | Pm [W] | ΔPm [%] | Voc [V] | Isc [A] | Vm [V] | Im [A] | FF [%] |
| 13.11.2013 | INITIAL | 126.01 | 0.00 | 71.46 | 2.793 | 55.00 | 2.291 | 63.1 |
| 19.11.2013 | LS | 116.14 | -7.83 | 71.23 | 2.688 | 53.62 | 2.166 | 60.7 |

ELECTRICAL PERFORMANCE SUMMARY

| GENERAL INFORMATION | |
|----------------------|---|
| Manufacturer | Pramac |
| Module Label | 13-170/C/2 |
| Type | Luce MCPH P7L |
| Serial Number | 110925000337000120 |
| Notes: | All the values are corrected to 1000 W/m ² |



ELECTRICAL PERFORMANCE MEASUREMENT AT STC

| GENERAL INFORMATION | | | |
|----------------------|--------------------|----------------------------|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/2 |
| Type | Luce MCPH P7L | Date of Measurement | 13.11.2013 |
| Serial Number | 110925000337000120 | | |
| Result: | PASSED | Notes: | |

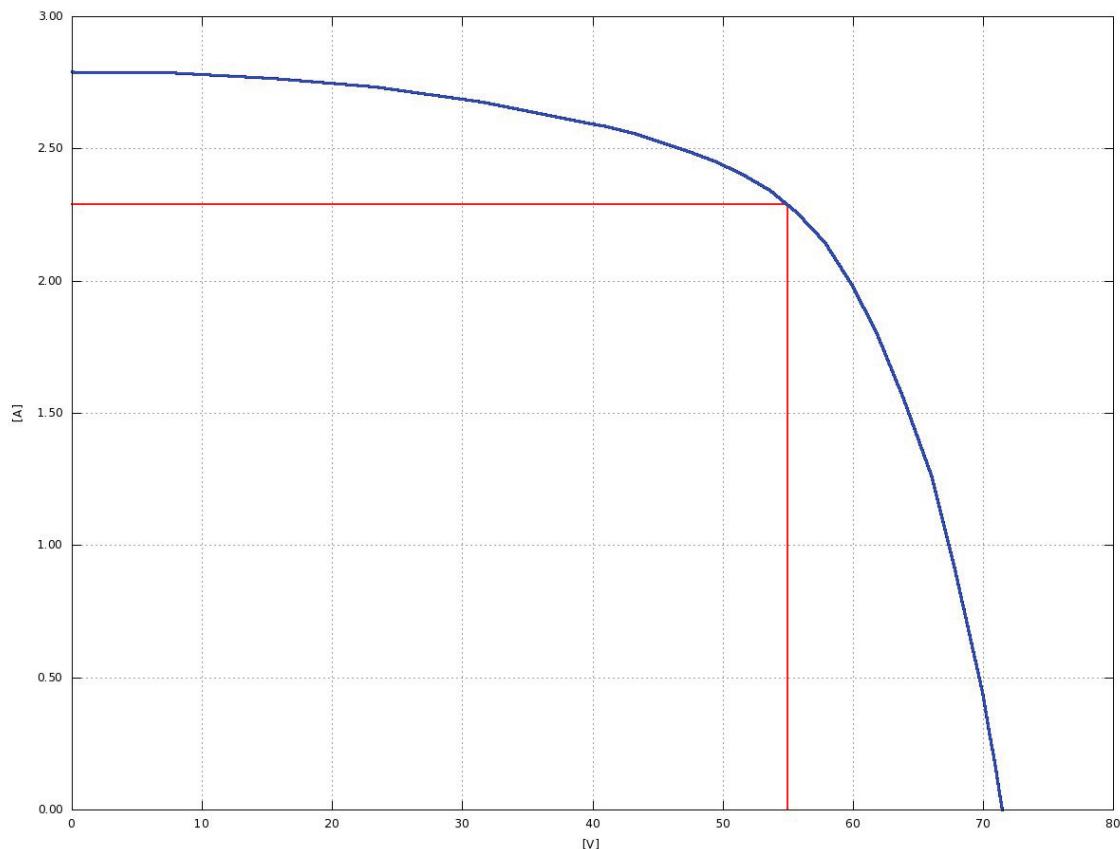
| TEST RESULTS | | | |
|-----------------------------------|-----------------------|---|----------|
| Test conditions | | Values corrected to 1000 W/m ² | |
| Measurement mode | multiflash | Pmax | 126.01 W |
| Reference Cell | 054-2008 | Vmp | 55.00 V |
| Reference Cell Temperature | 25±1 °C | Imp | 2.291 A |
| Module Temperature | 25±1 °C | Voc | 71.46 V |
| Mean Irradiance | 1000 W/m ² | Isc | 2.793 A |
| | | Fill factor | 63.1 % |
| | | Module efficiency | 8.8 % |

| UNCERTAINTY | | | |
|---|--|--|--|
| This measure is not accredited ISO17025 | | | |

| REMARKS | | | |
|---------|--|--|--|
| | | | |

ELECTRICAL PERFORMANCE MEASUREMENT AT STC

| GENERAL INFORMATION | | | |
|----------------------|--------------------|--|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/2 |
| Type | Luce MCPH P7L | Date of Measurement | 13.11.2013 |
| Serial Number | 110925000337000120 | | |
| Result: | PASSED | Notes: All values are corrected to 1000 W/m ² | |



ELECTRICAL PERFORMANCE MEASUREMENT AT STC

| GENERAL INFORMATION | | | |
|----------------------|--------------------|----------------------------|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/2 |
| Type | Luce MCPH P7L | Date of Measurement | 19.11.2013 |
| Serial Number | 110925000337000120 | | |
| Result: | PASSED | Notes: | |

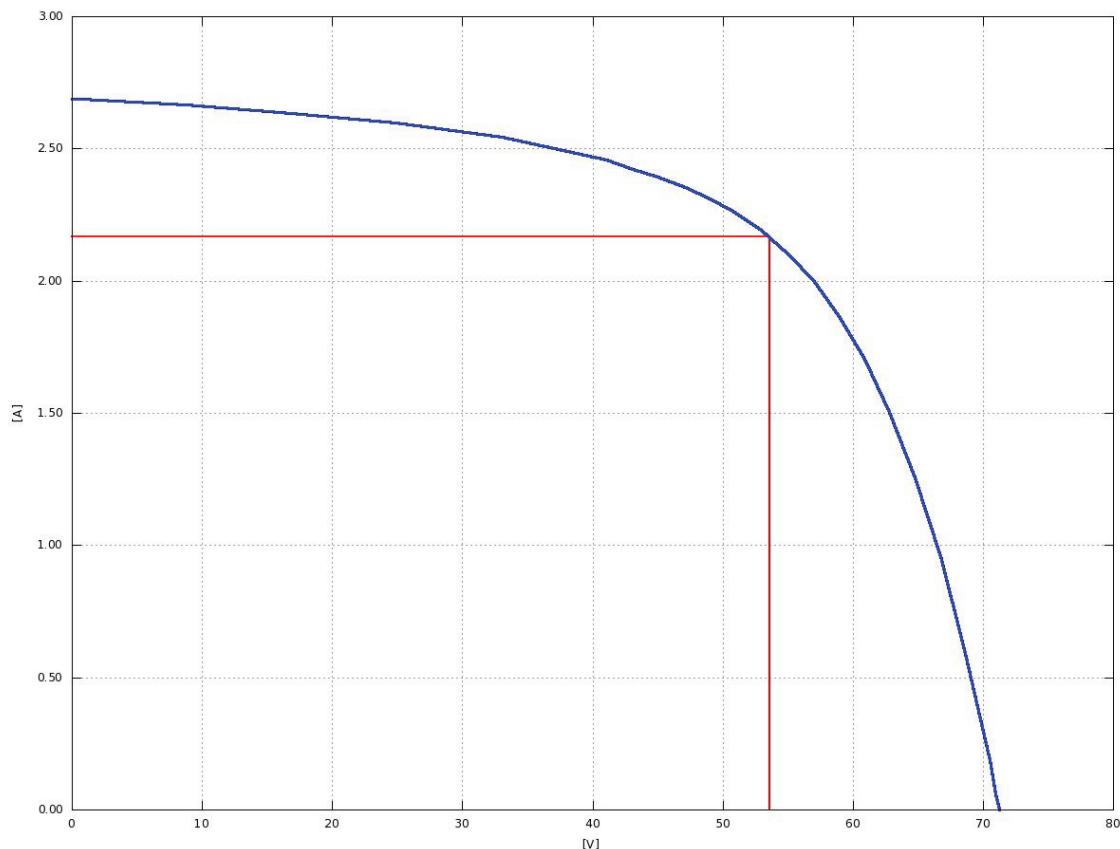
| TEST RESULTS | | | |
|-----------------------------------|-----------------------|---|----------|
| Test conditions | | Values corrected to 1000 W/m ² | |
| Measurement mode | multiflash | Pmax | 116.14 W |
| Reference Cell | 054-2008 | Vmp | 53.62 V |
| Reference Cell Temperature | 25±1 °C | Imp | 2.166 A |
| Module Temperature | 25±1 °C | Voc | 71.23 V |
| Mean Irradiance | 1000 W/m ² | Isc | 2.688 A |
| | | Fill factor | 60.7 % |
| | | Module efficiency | 8.1 % |

| UNCERTAINTY | | | |
|---|--|--|--|
| This measure is not accredited ISO17025 | | | |

| REMARKS | | | |
|---------|--|--|--|
| | | | |

ELECTRICAL PERFORMANCE MEASUREMENT AT STC

| GENERAL INFORMATION | | | |
|----------------------|--------------------|--|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/2 |
| Type | Luce MCPH P7L | Date of Measurement | 19.11.2013 |
| Serial Number | 110925000337000120 | | |
| Result: | PASSED | Notes: All values are corrected to 1000 W/m ² | |



WET LEAKAGE SUMMARY

| GENERAL INFORMATION | | | | | |
|----------------------|---------|-----------------------|-----------------------------|-------------------|---------------------|
| Manufacturer | | Pramac | | | |
| Module Label | | 13-170/C/2 | | | |
| Type | | Luce MCPH P7L | | | |
| Serial Number | | 110925000337000120 | | | |
| Notes: | | | | | |
| RESULTS | | | | | |
| Date | After | Insulation resistance | Area resistance | Water temperature | Water conducibility |
| 17.10.2013 | INITIAL | 97.6 Mohm | 140.0 Mohm * m ² | 22.0 °C | 1140.0 µS |

WET LEAKAGE TEST

| GENERAL INFORMATION | | | |
|----------------------|--------------------|----------------------|------------|
| Manufacturer | Pramac | Module Label | 13-170/C/2 |
| Type | Luce MCPH P7L | Starting date | 17.10.2013 |
| Serial Number | 110925000337000120 | Ending date | 17.10.2013 |
| Result: | PASSED | | Notes: |

| TEST RESULTS | |
|------------------------------|---------------------------|
| Insulation resistance | 97.6 Mohm |
| Area resistance | 140 Mohm * m ² |
| Water temperature | 22 °C |
| Water conductivity | 1140 µS |

| UNCERTAINTY |
|----------------------------|
| Total uncertainty = ± 0.8% |

| REMARKS |
|---------|
| |

INFRARED IMAGING SUMMARY

| GENERAL INFORMATION | |
|----------------------|--------------------|
| Manufacturer | Pramac |
| Module Label | 13-170/C/2 |
| Type | Luce MCPH P7L |
| Serial Number | 110925000337000120 |
| Notes: | |

| RESULTS | | |
|------------|---------|---------|
| Date | After | Isc [A] |
| 13.11.2013 | INITIAL | 2.630 |

INFRARED

| GENERAL INFORMATION | | | |
|----------------------|--------------------|----------------------|---|
| Manufacturer | Pramac | Module Label | 13-170/C/2 |
| Type | Luce MCPH P7L | Starting date | 13.11.2013 |
| Serial Number | 110925000337000120 | Ending date | 13.11.2013 |
| Result: | PASSED | | Notes: Test current 2.63 A Time ISC 420 s |

| UNCERTAINTY |
|-------------|
| |

| REMARKS |
|---------|
| |

Picture N° 1

