

Prices and Service Descriptions – Callab PV Cells 2024

Stepped pricing applies to the number of services requested per cell type, per shipment of cells.

Calibration of a solar cell under STC**

- spectral response from the range of 300 nm to 1,200 nm***
- IV characteristics with indication of V_{OC} , I_{SC} , V_{MPP} , I_{MPP} , P_{MPP} , FF and η
- indication of measurement uncertainties* (V_{OC} , I_{SC} , P_{MPP} , and η)

Number of Cells/Types	Price (€) per Cell/Type
1	1050.00
2	950.00
3	900.00
4	860.00
5	820.00
6	780.00
7	740.00
8	700.00
9	670.00
10 or more	640.00

Determination of the temperature coefficients of a solar cell

- temperature range from 15°C to 75°C in accordance with IEC 61853-1
- 4 IV characteristics (V_{OC} , I_{SC} , V_{MPP} , I_{MPP} , P_{MPP} , FF and η)
- 2 determinations of spectral response (25°C and 75°C)
- each 4 measuring points with linear regression
- TC including the indication of measurement uncertainties* (V_{OC} , I_{SC} , P_{MPP} , and η)
- calibration included (see calibration service description)

Price (€) per Cell/Type:	2740.00
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Determination of the irradiance dependence of a solar cell

- option available only in addition to the service of calibration or in addition to determination of IV characteristics
- additional determination of IV parameters at the irradiance intensities: 900, 500, 300 and 200 W/m²

Price (€) per Cell/Type: 970.00

Determination of dark IV characteristics of a solar cell

- determination of dark IV characteristics at 25°C

Number of Cells/Types	Price (€) per Cell/Type
1	180.00
2	170.00
3	160.00
4	150.00
5 or more	140.00

Special Service for Thin Film Cells

Calibration of a thin-film solar cell under STC**

- spectral response from the range of 280 nm up to 2,000 nm***
- IV characteristics with indication of V_{OC} , I_{SC} , V_{MPP} , I_{MPP} , P_{MPP} , FF and η
- indication of measurement uncertainties* (V_{OC} , I_{SC} , P_{MPP} , and η)

Number of Cells/Types	Price (€) per Cell/Type
1	1310.00
2	1240.00
3	1180.00
4	1120.00
5	1060.00
6	1010.00
7	960.00
8	910.00
9	860.00
10 or more	820.00

Special Service for Thin Film Cells

Calibration of a tandem solar cell under STC**

- 2 spectral responses from the range of 280 nm up to 1,400 nm***
- IV characteristics with indication of V_{OC} , I_{SC} , V_{MPP} , I_{MPP} , P_{MPP} , FF and η
- indication of measurement uncertainties* (V_{OC} , I_{SC} , P_{MPP} , and η)

Number of Cells/Types	Price (€) per Cell/Type
1	1690.00
2	1640.00
3	1590.00
4	1540.00
5	1490.00
6	1450.00
7	1410.00
8	1370.00
9	1330.00
10 or more	1290.00

* Indication of measurement uncertainties, provided the test device is viable for calibration

** Standard test conditions: AM 1.5 global, 1000W/m², 25 °C

*** The range of the measured wavelength may vary slightly.

Additional services are available upon request. We can also provide you with a choice of the following standard conditions for your solar cell calibrations: AM1.5 global, AM1.5 direct or AM0 WRL. Please contact us for more information.

Callab PV Cells is accredited by Germany's National Accreditation Body (DAkkS) in accordance with ISO/IEC 17025.

Please note that, each group of cells, and each type of cell, that we receive generates work that needs to be done (setting up the order, customs clearance, checking the cells in, setting up the measurement equipment and setting up the software for each cell type in the order, calculating and reviewing the measurement results, producing the certificates, preparing the customs paperwork, packaging the cells for return and sending the cells back to the customer, etc.).

Less time and effort is involved when all of these things happen once as opposed to several times with lesser amounts of cells. Our stepped pricing was put in place to pass that savings on to our customers who send us larger numbers of the same cells at one time. So, the price per service will depend on how many cells of the same type per service are required at one time.