

# Libra Energy - ROADMAP Modules, mounting materials and accessories

Perspective on Q2 and Q3 2026

*Product Management*

## Changes in Libra Energy's product portfolio

| Modules   | When      |
|---|-----------|
| <b>Aiko</b>   |           |
| Expected 540 Wp glass-glass white panels                  | July 2026 |
| <b>DMEGC</b>  |           |
| Expected 470 Wp glass-glass white panels                  | Q3        |
| <b>JA Solar</b>   |           |
| DeepBlue 5.0 expected (G12 cells)                         | End of Q3 |
| Mounting materials  | When      |
| <b>Sunbeam</b>  |           |
| Supra Resourced will soon be available on a project basis | July 2026 |

# Modules

Perspective on Q2 and Q3 2026

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# Panelen Portfolio Q2-2026 & Q3-2026

| Brand                      | Type                 | Cell type  | Colour    | Mono- or bifacial | Power output Q2-2026* | Power output Wp/m2 | Module size        | Warranty manufacturer | # Pallet / container | Power output Q3-2026* | Available stock (current expectation) |
|----------------------------|----------------------|------------|-----------|-------------------|-----------------------|--------------------|--------------------|-----------------------|----------------------|-----------------------|---------------------------------------|
| <b>All-Black</b>           |                      |            |           |                   |                       |                    |                    |                       |                      |                       |                                       |
| Aiko                       | AK-A485-MCE54Mb-BK   | N-type M10 | All-black | Monofacial        | 485                   | 243                | 1762 x 1134 x 30mm | 30 years              | 37/962               | 485/490               | July 2026                             |
| <b>Glas-Glas All-Black</b> |                      |            |           |                   |                       |                    |                    |                       |                      |                       |                                       |
| JA Solar                   | JAM54D41-460-LR-BK   | N-type M10 | All black | Monofacial        | 460                   | 230                | 1762 x 1134 x 30mm | 25 years              | 36/936               | 460/465               | ✓✓✓                                   |
| JA Solar                   | JAM48D51-XXX-LR-BK   | N-type M10 | All black | Monofacial        |                       |                    | 1762 x 1134 x 30mm | 25 years              | 37/962               | NTB                   | 5.0, Q3 start production              |
| DMEGC                      | DM470G12RT-G48HBB-BK | N-Type G12 | All black | Monofacial        | 465/470               | 235                | 1762 x 1134 x 30mm | 25 years              | 36/396               | 465/470               | ✓✓✓                                   |
| DMEGC                      | DM515G12RT-G54HBB-BK | N-Type G12 | All-black | Bifacial          | 515                   | 227                | 1977 x 1134 x 30mm | 25 years              | 36/864               | 515                   | ✓✓✓                                   |
| Aiko                       | AK-A465-MAH54Db-BK   | N-type M10 | All-black | Bifacial          | 465                   | 233                | 1757 x 1134 x 30mm | 25 years              | 36/936               | 465                   | ✓✓✓                                   |
| Aiko                       | AK-A485-MCE54Db-BK   | N-type M10 | All-black | Bifacial          | 480/485               | 243                | 1762 x 1134 x 30mm | 30 years              | 37/962               | 480/485               | ✓✓                                    |
| Aiko                       | AK-A535-MCE60Db-BK   | N-type M10 | All-black | Bifacial          | 535                   | 241                | 1954 x 1134 x 30mm | 25 years              | 37/888               | 535                   | July 2026                             |



\*Note: available modules will be a mix of power output (+/- 5Wp). All modules have Staubli MC4-connectors, unless noted differently (Twinsel/QC4/JK03M/ST4). Availability based on situation from publishing roadmap, This might change. Watch availability in the webshop: [Solar modules | Libra Energy](#)

# Panelen Portfolio Q2-2026 & Q3-2026

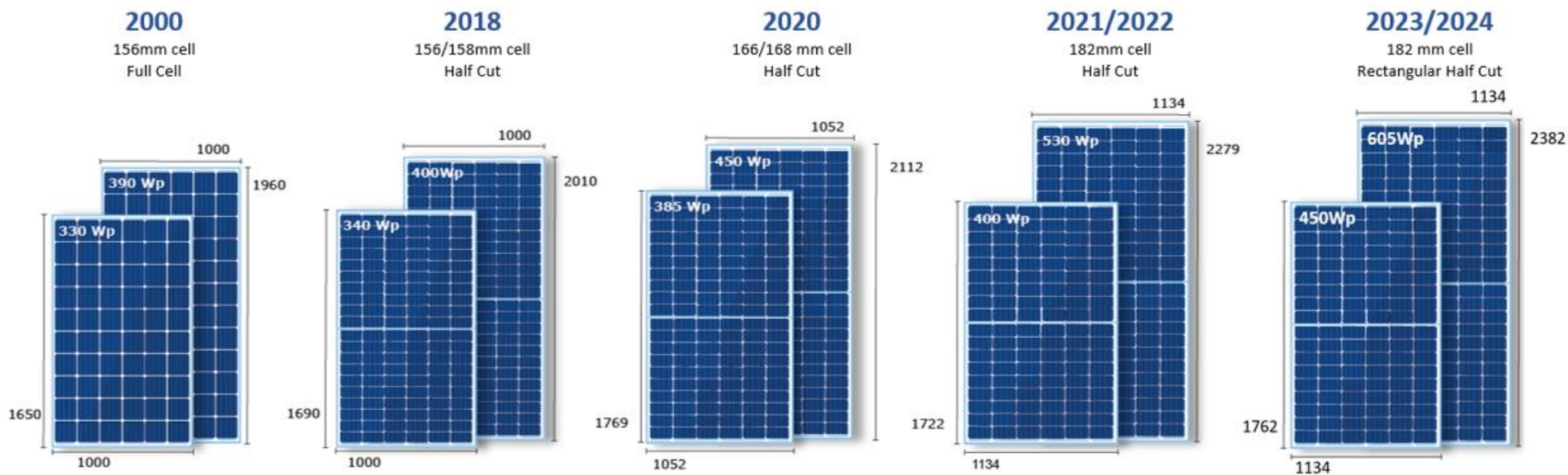
| Brand                  | Type                | Cell type  | Colour       | Mono- or bifacial | Power output Q2-2026* | Power output Wp/m2 | Module size         | Warranty manufacturer | # Pallet / container | Power output Q3-2026* | Available stock (current expectation) |
|------------------------|---------------------|------------|--------------|-------------------|-----------------------|--------------------|---------------------|-----------------------|----------------------|-----------------------|---------------------------------------|
| <b>Glas-Glas White</b> |                     |            |              |                   |                       |                    |                     |                       |                      |                       |                                       |
| JA Solar               | JAM54D40-465-LR-B   | N-type M10 | Black frame  | Monofacial        | 465                   | 233                | 1762 x 1134 x 30mm  | 25 years              | 36/936               | 465/470               | ✓✓✓                                   |
| JA Solar               | JAM48D50-XXX-LR-B   | N-type G12 | Black frame  | Monofacial        |                       |                    | 1762 x 1134 x 30mm  | 25 years              | 37/936               | NTB                   | 5.0, Q3 start production              |
| JA Solar               | JAM60D42-535-LB     | N-type M10 | Black frame  | Bifacial          | 535/540               | 229                | 2063 x 1134 x 30mm  | 25 years              | 36/936               | 535                   | ✓✓✓ (Ending)                          |
| JA Solar               | JAM66D45-630-LB     | N-type M10 | Silver frame | Bifacial          | 630                   | 231                | 2382 x 1134 x 30mm  | 12 years              | 36/720               | 630/635               | ✓                                     |
| DMEGC                  | DM465G12RT-B48HBW-B | N-type G12 | Black frame  | Bifacial          | 465                   | 233                | 1762 x 1134 x 30mm  | 25 years              | 36/936               | 465/470               | ✓✓                                    |
| DMEGC                  | DM470G12RT-G48HBW-B | N-type G12 | Black frame  | Monofacial        |                       |                    | 1762 x 1134 x 30mm  | 25 years              | 36/936               | 470                   | Q3                                    |
| DMEGC                  | DM515G12RT-B54HBW   | N-type G12 | Black frame  | Bifacial          | 515                   | 233                | 1977 x 1134 x 30mm  | 25 years              | 36/864               | 515                   | ✓✓✓                                   |
| DMEGC                  | DM635G12RT-B66HSW   | N-type G12 | Silver frame | Bifacial          | 630/635               | 233                | 2382 x 1134 x 30mm  | 15 years              | 36/720               | 630/635/645           | ✓                                     |
| Aiko                   | AK-A485-MCE54Dw-B   | N-type M10 | Black frame  | Bifacial          | 485                   | 240                | 1762 x 1134 x 30mm  | 15 years              | 37/962               | 485                   | July 2026                             |
| Aiko                   | AK-A540-MCE60Dw-B   | N-type M10 | Black frame  | Bifacial          | 540                   | 244                | 1954 x 1134 x 30 mm | 15 years              | 37/888               | 540                   | July 2026                             |
| <b>White Backsheet</b> |                     |            |              |                   |                       |                    |                     |                       |                      |                       |                                       |
| Aiko                   | AK-A490-MCE54Mw-B   | N-type M10 | Black frame  | Monofacial        |                       | 243                | 1762 x 1134 x 30mm  | 15 years              | 37/962               | 490/495               | July 2026                             |
| <b>On request</b>      |                     |            |              |                   |                       |                    |                     |                       |                      |                       |                                       |

Various options are available on a project basis, such as anti-glare and transparent. Contact us to discuss the possibilities.



# Market trends 2026

- After a period of varying panel formats, 1722 × 1134 mm appeared to become the standard for residential solar modules. This format was extended to 1762 × 1134 mm (exactly 2 m<sup>2</sup>), originally due to German regulations. Although these regulations have since been repealed, manufacturers continue to adhere to this format. A recent development is that some manufacturers have shifted from 54 full cells to 48 full / 96 half cells, based on a combination of 182 mm (M10) and 210 mm (G12) solar cells.
- After the high inventories and price pressure of 2024, the market stabilized in early 2025. In Q3 2025, prices were at a historically low level. Now, in Q2 2026, prices are rising, mainly due to increasing material costs.
- The transition from p-type to n-type technology, which began in 2021, has now been fully completed. In Europe, TOPCon (n-type) has become the dominant technology, particularly in the residential segment.



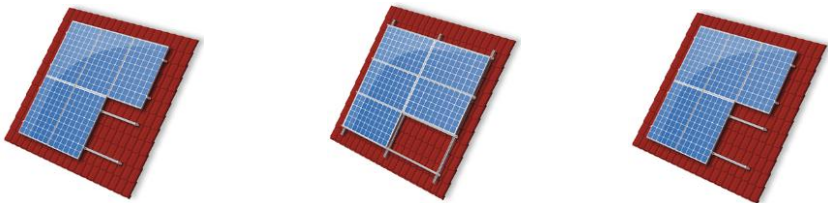
# Mounting materials

Perspective on Q2 and Q3 2026

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## Van der Valk Solar Systems (1)

|               | Pitched roof   |  |                       |
|---------------|--|--|-----------------------|
|               |  |  |                       |
| <b>Series</b> | ValkPitched – Clamp  | ValkPitched – Insert                                       | ValkAce               |
| <b>Remark</b> | Roof tiles/ Sandwich/<br>Corrugated/ Standing<br>seam/ Bitumen/ EPDM/<br>PVC       | Roof tiles/ Sandwich/<br>Corrugated/ Bitumen/<br>EPDM/ PVC | Roof tiles            |
| <b>Layout</b> | Portrait or landscape  | Portrait or landscape                                      | Portrait or landscape |
| <b>Stock</b>  | <a href="#">Shop</a>   | <a href="#">Shop</a>                                       | <a href="#">Shop</a>  |

For prices and most recent availability, go to the Libra Energy Webshop: [Libra Energy - Mounting materials Van der Valk](#)



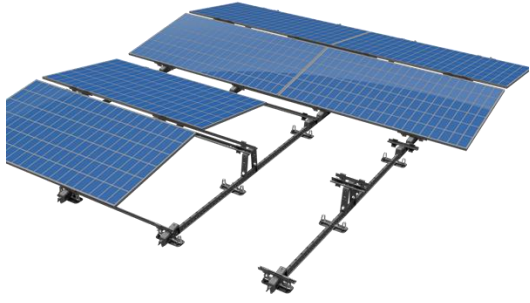

## Van der Valk Solar Systems (2)

|               | Flat roof  |                      |                         |                          | ValkCableCare   |
|---------------|--|----------------------|-------------------------|--------------------------|---|
|               |  |                      |                         |                          |  |
| <b>Series</b> | Valk Pro+ South  | Valk Pro+ East/West  | Solar ramp              | ValkBox3                 | ValkCableCare   |
| <b>Remark</b> | 10°  | 10°                  | Double/ Triple/ Quattro | For one individual panel | Cable trays, cable clamps, pv shelters, cable tubes, drainage clips                 |
| <b>Layout</b> | Landscape/ Portrait  | Landscape/ Portrait  | Landscape               | Landscape                | All   |
| <b>Stock</b>  | <a href="#">Shop</a>   | <a href="#">Shop</a> | <a href="#">Shop</a>    | <a href="#">Shop</a>     | <a href="#">Shop</a>  |

For prices and most recent availability, go to the Libra Energy Webshop: [Libra Energy - Mounting materials Van der Valk](#)



## Van der Valk Solar Systems (3)

|        | Flat roof large   | Carport   |
|--------|---|---|
|        |  |  |
| Series | ValkPro+ Max NextGen  | ValkTop   |
| Remark | For panels from 1700 to 2500 mm in length<br>East/West or South                   | Trapezoidal / Steel   |
| Layout | Landscape   | Single or Double  |
| Stock  | <a href="#">Shop</a>  | Project basis (contact us)  |

For prices and most recent availability, go to the Libra Energy Webshop: [Libra Energy - Mounting materials Van der Valk](#)

# Enstall

# ENSTALL

|        | Pitched roof  | Flat roof  |   |
|--------|---|--|---|
|        |  |  |  |
| Series | ClickFit EVO  | FlatFix Fusion   | Connect   |
| Remark | Roof tiles/ Corrugated/ Steel roof/ Bitumen/ Slate                                | South or East/West   | South or East/West  |
| Layout | Portrait or landscape   | Landscape/ Portrait  | Landscape/ Portrait   |
| Stock  | <a href="#">Shop</a>  | <a href="#">Shop</a>   | <a href="#">Shop</a>  |

For prices and most recent availability, go to the Libra Energy Webshop: [Libra Energy - Mounting materials Enstall](#)

# Sunbeam



|                  | Pitched roof  |                      | Flat roof   |   |
|------------------|---|----------------------|---|---|
|                  |  |                      |   |   |
|                  |   |                      |  |   |
|                  |   |                      |  |   |
| <b>Serie</b>     | Luna  | Nova                 | Supra   | Supra Resourced   |
| <b>Opmerking</b> | Steel roof / Fiber cement / Tiled roof  | East/West or South   | East/West or South (for panels 1800 to 2500 mm long)                                | Made from 80% recycled material: at least 60% CO <sub>2</sub> reduction |
| <b>Layout</b>    | Portrait or landscape   | Landscape            | Landscape   | Landscape   |
| <b>Voorraad</b>  | <a href="#">Shop</a>  | <a href="#">Shop</a> | <a href="#">Shop</a>  | Coming soon, available on a project basis                               |

For prices and most recent availability, go to the Libra Energy Webshop: [Libra Energy - Mounting materials Sunbeam](#)

# Cables, connectors and shelters

Perspective on Q2 and Q3 2026

*Product Management*


# Cable



|            | Solen Kablo   |
|------------|---|
|            |  |
| Series     | Solen Solar   |
| Cable type | Solar cable / DC cable & Grounding cable  |
| Length     | 25m, 100m, 500m   |
| Diameter   | 4mm <sup>2</sup> , 6mm <sup>2</sup>   |
| Fire class | DCA   |
| Stock      | <a href="#">Shop</a>  |

For prices and most recent availability, go to the Libra Energy Webshop: [Libra Energy - Cables](#)





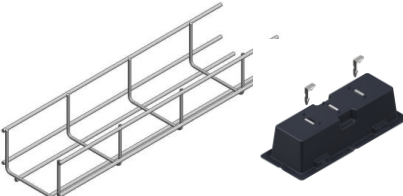
## Connectors & Accessories

|                                    | Stäubli  |                                    |                                    |                                    |                                    |  |
|------------------------------------|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|
|                                    |  |                                    |                                    |                                    |                                    |  |
| Series                             | MC4 connector  | MC4 EVO2 connector                 | MC4 EVO Ready connector            | String fuses                       | Y-connectors / splitters           | Accessories  |
| Description                        | MC4 connector  | MC4 EVO2 connector                 | MC4 EVO Ready connector            | 15A & 20A                          | MC4 EVO2 Y-connector               | Crimping pliers, mounting wrenches, torque wrench, testers, etc. |
| Inside diameter (mm <sup>2</sup> ) | 4-6mm <sup>2</sup> (6XUR)<br>10mm <sup>2</sup> (10II)                              | 4-6mm <sup>2</sup>                 | 4-6mm <sup>2</sup>                 | -                                  | -                                  | -  |
| Outside diameter (mm)              | 5.5-7.4 (6XUR)/<br>7.0-8.8 (10II)  | 4.7-6.4mm                          | 5.4-7.6mm                          | -                                  | -                                  | -  |
| Max. Voltage                       | 1000V  | 1500V                              | 1500V                              | 1500V                              | 1500V                              | -  |
| Extra                              | Compatible with all MC4 connectors   | Compatible with all MC4 connectors | Compatible with all MC4 connectors | Compatible with all MC4 connectors | Compatible with all MC4 connectors | -  |
| Stock                              | <a href="#">Shop</a>   | <a href="#">Shop</a>               | <a href="#">Shop</a>               | <a href="#">Shop</a>               | <a href="#">Shop</a>               | <a href="#">Shop</a>   |

For prices and most recent availability, go to the Libra Energy Webshop: [Libra Energy - Stäubli](#)

# Cable management



|                  | Packages  | Conduct losse tray   | PVX Multimount  | PVX Minimount   | ValkCableCare   |
|------------------|---|--|---|---|---|
|                  |  |  |  |  |    |
| Wire trays       | 35x30 = 3 meters<br>65x60 cm<br>65x100 cm   | 65x60 cm<br>65x100 cm<br>65x150 cm<br>65x400 cm<br>65x500 cm<br>65x600 cm          | Compatible  | Compatible  | 35x100 cm<br>35x150 cm<br>35x200 cm<br>35x250 cm<br>35x350 cm<br>60x50 cm<br>60x100 cm<br>60x150 cm<br>60x200 cm<br>60x300 cm<br>60x400 cm<br>60x500 cm |
| Length           | 4x3= 12 meters  | 3 meters   | Na  | Na  | 3 meters  |
| Material         | EZ1000  | EZ1000   | HDPE  | HDPE  | Zinc-aluminum   |
| Base             | ✓   | Conduct / PVX  | ✓   | ✓   | ✓   |
| Cover            | Option  | ✓  | Na  | Na  | ✓   |
| Cover clamp      | Option  | ✓  | Na  | Na  | ✓   |
| Quick connector  | ✓   | ✓  | Na  | Na  | ✓   |
| Connection clamp | ✓   | ✓  | Na  | Na  | ✓   |
| Partition        | Option  | ✓  | Na  | Na  | ✓   |

# PV shelters



|       | Van der Valk  | Conduct   |
|-------|---|---|
|       |  |  |
| Type  | Single, Double, Wall, Slim, Mini  | Single shelter, PVbox shelter   |
| Code  | VDV760601<br>VDV760602<br>VDV760603<br>VDV760604<br>VDV760605                     | PVS200319-3-NA<br>PVS200319-5-NA<br>PVS200319-PVBOX                                 |
| Stock | On request: <a href="#">shop</a>  | <a href="#">Shop</a>  |