

Libra Energy - ROADMAP Modules, mounting materials and accessories

Perspective on Q2 and Q3 2025

Product Management

June 2025 (Next update: August 2025)

Changes in Libra Energy's product portfolio

Modules	When
Jinko	
New glass-glass panels Jinko expected (HOT 3.0)	August 2025
JKM435N-54HL4R-BK sold out, no longer available	Immediately
DMEGC	
DM440M10RT-54HBB-BK sold out, no longer available	Immediately
Aiko	
Gen 3 All Black Modules (glass-foil and glass-glass) available	Immediately
AK-A500-MAH54Mb-BK and AK-A500-MAH60Db-BK expected	July 2025
Utility modules	
JAM66D45-625-LB added (container delivery)	On request
DM625G12RT-B66HSW added (container delivery)	On request

Modules

Perspective on Q2 and Q3 2025

Product Management

Module Portfolio Q2-2025 & Q3-2025

Brand	Type	Cell type	Colour	Power output Q2-2025*	Power output Wp/m2	Module size	Warranty manufacturer	# Pallet / container	Power output Q3-2025*	Available stock (current expectation)
All-Black										
Aiko	AK-A465-MAH54Mb-BK	N-type M10	All-black	460/465	233	1757 x 1134 x 30mm	25 years	36/936	460/465	June 26, 2025
Aiko	AK-A475-MCE54Mb-BK	N-type M10	All-black	470/475	238	1762 x 1134 x 30mm	25 years	37/962	470/475	✓
Aiko	AK-A500-MAH60Mb-BK	N-type M10	All-black			1954 x 1134 x 30mm	25 years	37/888	500	July 2025
Meyer Burger	MB-390-HJT120-HC-BK	N-type M6	All-black	390	212	1767 x 1041 x 35mm	25 years	30/840	390	✓
Glas-Glas All-Black										
JA Solar	JAM54D41-450N-LB	N-type M10	All black	445/450	225	1762 x 1134 x 30mm	25 years	36/936	445/450	✓✓✓
DMEGC	DM450M10RT-B54HBB-BK	N-type M10	All-black	450	225	1762 x 1134 x 30mm	25 years	36/936	450	✓✓
DMEGC	DM500M10RT-B60HBB-BK	N-type M10	All-black	500	226	1950 x 1134 x 30mm	25 years	36/864	500	✓✓
Jinko	JKM455-48HL4M-DB-BK	N-type M10	All-black			1762 x 1134 x 30mm	25 years	37/962	450/455/460	August 2025
Aiko	AK-A465-MAH54Db-BK	N-type M10	All-black	460/465	233	1757 x 1134 x 30mm	25 years	36/936	460/465	✓✓✓
Aiko	AK-A475-MCE54Db-BK	N-type M10	All-black	470/475	238	1762 x 1134 x 30mm	25 years	37/962	470/475	✓✓✓
Aiko	AK-A500-MAH60Db-BK	N-type M10	All-black			1954 x 1134 x 30mm	25 years	37/888	500	July 2025



*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: <https://shop.libra.energy/en/welcome>

Module Portfolio Q2-2025 & Q3-2025

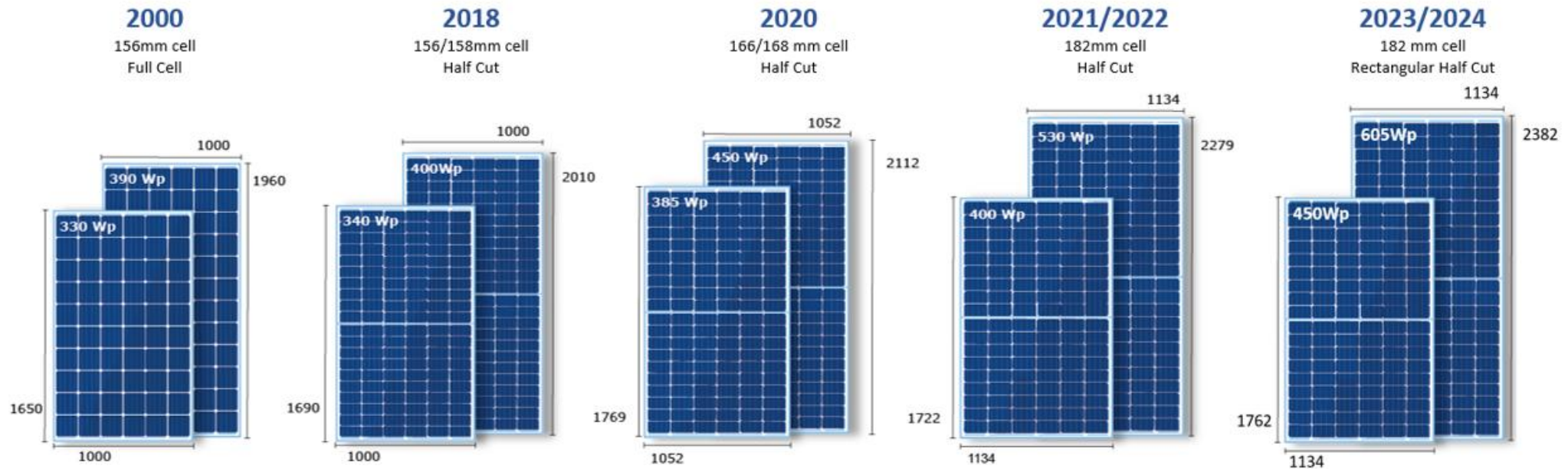
Brand	Type	Cell type	Colour	Power output Q2-2025*	Power output Wp/m2	Module size	Warranty manufacturer	# Pallet / container	Power output Q3-2025*	Available stock (current expectation)
Glass-Glass White										
JA Solar	JAM54D40-460N-LB	N-type M10	Black frame	455/460	230	1762 x 1134 x 30mm	25 years	36/936	455/460	✓
JA Solar	JAM60D42-530-LB	N-type M10	Silver frame	530	227	2063 x 1134 x 30mm	12 years	36/936	530	June 26, 2025
JA Solar	JAM72D40-600-MB	N-type M10	Silver frame	595/600	230	2278 x 1134 x 30mm	12 years	36/720	595/600	✓✓✓
DMEGC	DM505M10RT-B60HSW-V	N-type M10	Silver frame	505	228	1950 x 1134 x 30mm	25 years	36/864	505	✓✓
DMEGC	DM585M10T-B72HSW	N-type M10	Silver frame	585	226	2278 x 1134 x 30mm	15 years	36/720	585/590	✓✓✓
Jinko	JKM460-48HL4M-DV-B	N-type M10	Black frame			1762 x 1134 x 30mm	15 years	37/962	460	July 2025
Aiko	Model No.: AK-A480-MCE54Dw-B	N-type M10	Black frame			1762 x 1134 x 30mm	15 years	37/962	480	August 2025
White Backsheet										
Jinko	JKM450N-54HL4R-V-B-2	N-type M10	Black frame	450	225	1762 x 1134 x 30mm	15 years	36/936	450	✓✓ (Ending)
Aiko	AK-A470-MAH54Mw-B	N-type M10	Black frame	470	236	1757 x 1134 x 30mm	15 years	36/936	470	✓
Aiko	AK-A480-MCE54Mw-B	N-type M10	Black frame			1762 x 1134 x 30mm	15 years	37/962	480/485	July 2025
Special										
BISOL	BDO-305M-TERRA	P-type M10	Terracotta	305	156	1722 x 1134 x 30mm	15 years	35/1050	305	✓✓ (Ending)
Aiko	AK-A445-MAH54Tm-B	N-type M10	Polymer	445	223	1758 x 1137 x 30mm	12 years	36/936	445	✓✓
Utility modules (on request)										
JA Solar	JAM66D45-625-LB	N-type M10	Silver frame	625	231	2382 x 1134 x 30mm	12 years	36/720	625	On request
DMEGC	DM625G12RT-B66HSW	N-type M10	Silver frame	625	231	2382 x 1134 x 30mm	15 years	36/720	625	On request
Aiko	AK-G645-MCH72Dw-B	N-Type M10	Silver frame	645	239	2382 x 1134 x 30mm	15 years	36/720	650	On request



*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: <https://shop.libra.energy/en/welcome>

Market trends 2025

- After a period of varying module sizes, 1722x1134 mm seemed to become the standard for residential solar panels. This size was extended to 1762x1134 mm (exactly 2 m²), initially due to German regulations. Although these regulations have since been abolished, the sizes remain unchanged. The longer modules are produced with rectangular solar cells.
- At the end of 2024, overproduction and intense competition led to high stock levels and stable, low prices in Europe. By early 2025, however, inventory levels have somewhat decreased, and prices appear to be rising slightly, indicating a recovering market.
- The transition from p-type to n-type technology, which began in 2021, has now been fully completed. In Europe, Topcon (n-type) is now dominant, particularly in the residential segment.



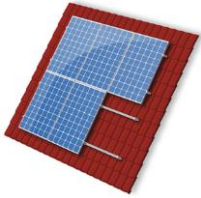
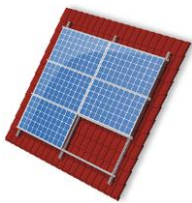
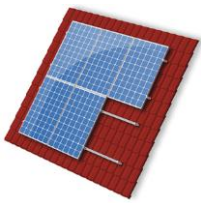
Mounting materials

Perspective on Q2 and Q3 2025

Product Management

Van der Valk Solar Systems



	Pitched roof			Flat roof				ValkCableCare
								
Series	ValkPitched – Clamp	ValkPitched – Insert	ValkAce	Valk Pro+ South	Valk Pro+ East/West	Solar ramp	ValkBox3	ValkCableCare
Remark	Roof tiles/ Sandwich/ Corrugated/ Standing seam/ Bitumen/ EPDM/ PVC	Roof tiles/ Sandwich/ Corrugated/ Bitumen/ EPDM/ PVC	Roof tiles	10°	10°	Double/ Triple/ Quattro	For one individual panel	Cable trays, cable clamps, pv shelters, cable tubes, drainage clips
Layout	Portrait or landscape	Portrait or landscape	Portrait or landscape	Landscape/ Portrait	Landscape/ Portrait	Landscape	Landscape	All
Stock	Shop	On request	Shop	Shop	Shop	Shop	Shop	Shop

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	Shop	Shop	Shop

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

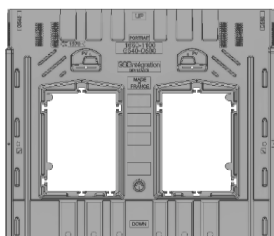
	Flat roof
	
Series	Supra
Remark	East/West (or South: coming soon)
Layout	Landscape
Stock	Shop

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

GSE In-roof system

GSE Intégration

Portrait 2022



Portrait 2020



Article	Module dimension	Article	Module dimension
GSE-ART105162	H: 1610-1800 B: 1130-1135	GSE-PORTRAIT14 (OP=OP)	H: 1670-1780 B: 1025-1030
GSE-ART105211	H: 1800-1990 B: 1130-1135		

For prices and most recent availability, go to the Libra Energy webshop: [Libra Energy – Mounting Material GSE](#)

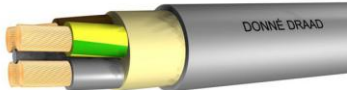
Cable and connectors

Perspective on Q2 and Q3 2025

Product Management

Cable



	Solen Kablo	Donné	Athilex
			
Series	Solen Solar	YmVK	Athilex CCA (BE)
Cable type	Solar cable / DC cable & Grounding cable	Installation cable / YmVK	Solar Cable / DC-Cable
Length	25m, 100m, 500m	100m	100m, 500m
Diameter	4mm ² , 6mm ²	3G2.5, 5G2.5	4mm ² , 6mm ²
Fire class	DCA	DCA	CCA
Extra	-	-	For Belgium
Stock	Shop	Shop	Shop

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

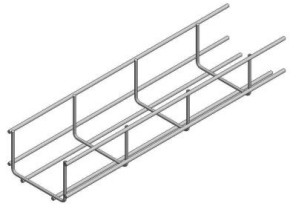
Connectors & Accessories

	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 pilers, mounting wrenches, torque wrench, testers, etc.
Inside diameter (mm ²)	4-6mm ² (6XUR) 10mm ² (10II)	4-6mm ²	4-6mm ²	-	-	-
Outside diameter (mm)	5.5-7.4 (6XUR)/ 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	Shop	Shop	Shop	Shop	Shop	Shop

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 65x60 65x100	65x60 65x100 65x150 65x400 65x500 65x600	Compatible	Compatible	35x100 35x150 35x200 35x250 35x350 60x50 60x100 60x150 60x200 60x300 60x500
Length	4x3= 12 meters	3 meters	Na	Na	3 meters
Material	EZ1000	EZ1000	HDPE	HDPE	Thermally galvanized
Base	✓	Conduct / PVX	✓	✓	✓
Cover	Option	✓	Na	Na	✓
Cover clamp	Option	✓	Na	Na	✓
Quick connector	✓	✓	Na	Na	✓
Connection clamp	✓	✓	Na	Na	✓
Partition	Option	✓	Na	Na	✓