

Solar modules Roadmap & Portfolio

Outlook Q1-2025 & Q2-2025

January 2025

(Next update: February 2025)

Modules Portfolio Q1-2025 & Q2-2025

Brand	Type	Cell type	Kleur	Power output Q1-2025*	Power output Wp/m2	Module size	Warranty manufacturer	# Pallet / container	Power output Q2-2025*	Availability (current expectation)
All-Black										
DMEGC	DM440M10RT-54HBB-BK	N-type M10	All-black	440	220	1762 x 1134 x 30mm	25 years	36/936	440	✓✓✓
Jinko	JKM440N-54HL4R-BK	N-type M10	All-black	435/440	220	1762 x 1134 x 30mm	25 years	36/936	435/440	✓✓✓
Aiko	AK-A-MAH54Mb-440-BK	N-type M10	All-black	440	225	1722 x 1134 x 30mm	15 years	36/936	440/445	✓✓✓
Aiko	AK-A465-MAH54Mb-BK	N-type M10	All-black	460/465	233	1757 x 1134 x 30mm	25 years	36/936	460/465	✓✓✓
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	JAM54D41-445N-LB	N-type M10	All black	440/445	223	1762 x 1134 x 30mm	25 years	36/936	440/445	✓✓✓
JA Solar	JAM54D41-435N-GB	N-type M10	All black	435	223	1722 x 1134 x 30mm	25 years	36/936	435	✓✓
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	TBC
Aiko	AK-A465-MAH54Db-BK	N-type M10	All-black	455/460/465	231	1757 x 1134 x 30mm	25 years	36/936	460/465	✓✓✓
AEG	AS-M1089B-GA(M10)-HV-455	N-type M10	All-black	455	228	1757 x 1134 x 30mm	25 years	36/936	455	✓✓✓
Glas-Glas White										
JA Solar	JAM54D40-450N-LB	N-type M10	Black frame	445	223	1762 x 1134 x 30mm	25 years	36/936	445/450	✓✓✓
JA Solar	JAM54D40-440-GB	N-type M10	Black frame	440	225	1722 x 1134 x 30mm	25 years	36/936	440	✓ (Ending)
JA Solar	JAM60D42-525-LB	N-type M10	Silver frame	520/525	222	2063 x 1134 x 30mm	12 years	36/936	525	✓✓✓
JA Solar	JAM66D42-580-MB	N-type M10	Silver frame	580	225	2278 x 1134 x 30mm	12 years	36/720	580	✓✓✓
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	580/585	226	2278 x 1134 x 30mm	15 years	36/720	580/585	✓✓✓
Aiko	AK-G645-MCH72Dw-B	N-Type M10	Silver frame	645	239	2382 x 1134 x 30mm	15 years	36/720	650	On request

Modules Portfolio Q1-2025 & Q2-2025

Brand	Type	Cell type	Kleur	Power output Q1-2025*	Power Wp/m2		Warranty manufacturer	# Pallet / container	Power output Q2-2025*	Availability (current expectation)
White Backsheet										
Jinko	JKM445N-54HL4R-V-B	N-type M10	Black frame	445	222	1762 x 1134 x 30mm	15 years	36/936	445	✓✓✓
Aiko	AK-A465-MAH54Mw-B	N-type M10	Black frame	465	233	1757 x 1134 x 30mm	25 years	36/936	465/470	✓✓✓
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	✓✓✓

Market trends 2025

- After a period of varying panel 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 panels 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.

