

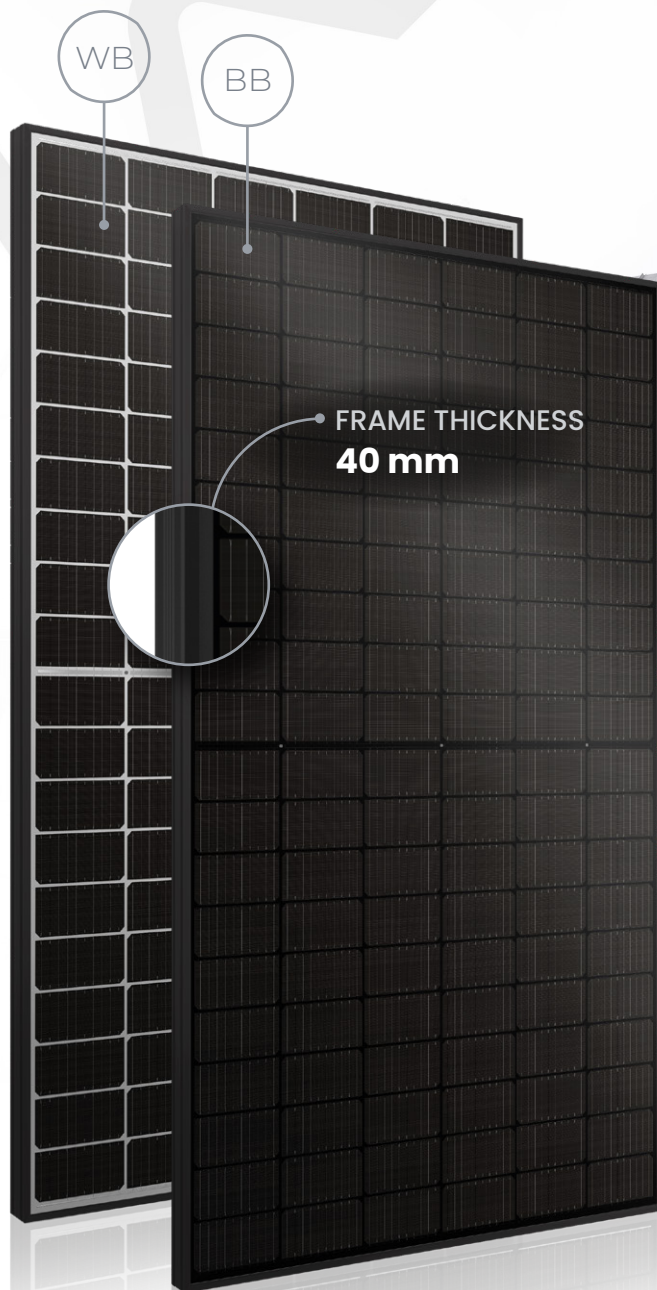
AVRii SOL

MODULES

Avrii SOL Opti-Power PRO

BB-445~460

WB-465~475



High-efficiency multi-busbar
monocrystalline
HALF-CELLS



Exceptional weather
resistance



Quick and easy assembly

Higher efficiency



PID resistance



Linear performance warranty
20 Years Product Warranty
25 Years Linear Power Warranty



More than
energy



EUROPEAN
PRODUCER

Avrii SOL Opti-Power PRO MODULES

Avrii SOL Opti-Power PRO BB-445~460

Avrii SOL Opti-Power PRO WB-465~475

ELECTRICAL PARAMETERS STC

	BB-445	BB-450	BB-455	BB-460	WB-465	WB-470	WB-475
Nominal power [Wp]	445	450	455	460	465	470	475
Short-circuit current [A]	13,58	13,64	13,7	13,76	13,83	13,89	13,95
Maximum power current [A]	12,98	13,03	13,08	13,13	13,19	13,25	13,31
Open-circuit voltage [V]	40,81	41,19	41,57	41,95	41,88	42,09	42,28
Maximum power voltage [V]	34,28	34,54	34,8	35,06	35,27	35,48	35,69
Efficiency [%]	20,37%	20,60%	20,82%	21,05%	21,28%	21,51%	21,74%

STC: Irradiance 1000 W/m², Air mass 1.5 AM, Cells temperature 25 °C.
Measurement tolerance STC ± 2 %.

ELECTRICAL PARAMETERS LIC

	BB-445	BB-450	BB-455	BB-460	WB-465	WB-470	WB-475
Nominal power [Wp]	84,94	85,89	86,86	87,81	88,76	89,72	90,68
Short-circuit current [A]	2,67	2,69	2,70	2,71	2,72	2,74	2,75
Maximum power current [A]	2,52	2,53	2,54	2,55	2,57	2,58	2,59
Open-circuit voltage [V]	38,01	38,36	38,71	39,07	39,00	39,20	39,38
Maximum power voltage [V]	33,65	33,90	34,16	34,41	34,62	34,83	35,03

LIC: Irradiance 200 W/m², Air mass 1.5 AM, Cells temperature 25 °C.
Measurement tolerance STC ± 5 %.

COMPOSITION

Front glass	3,2 mm, Tempered
Encapsulant	EVA film
Backsheet foil	BB-black and white, WB-White
Frame	Anodised aluminium, Black
Cells	Monocrystalline, Class A
Cells quantity	120
Junction box	IP68, 3 by-pass diodes
Cables	2 x 1100 mm, $\varnothing = 4 \text{ mm}^2$
Connectors	MC4 compatible, IP68

PACKING

Packing system	Carton box 2,0 x 1,25 x 1,2
Quantity	26 Pcs/Pallet
Transport	26 Pallets/Truck

PRODUCT CERTIFICATIONS

IEC 61215, IEC 61730

CE Declaration of Conformity

MECHANICAL PARAMETERS

Length [mm]	1920
Width [mm]	1138
Height [mm]	40
Weight [kg]	24,5

OPERATING PARAMETERS

Power tolerance	0/+1%
Safety class	II
Maximum system voltage	1000/1500 VDC
Operating temperature	-40 to +85°C
Reverse current protection	25 A

ENDURANCE PARAMETERS*

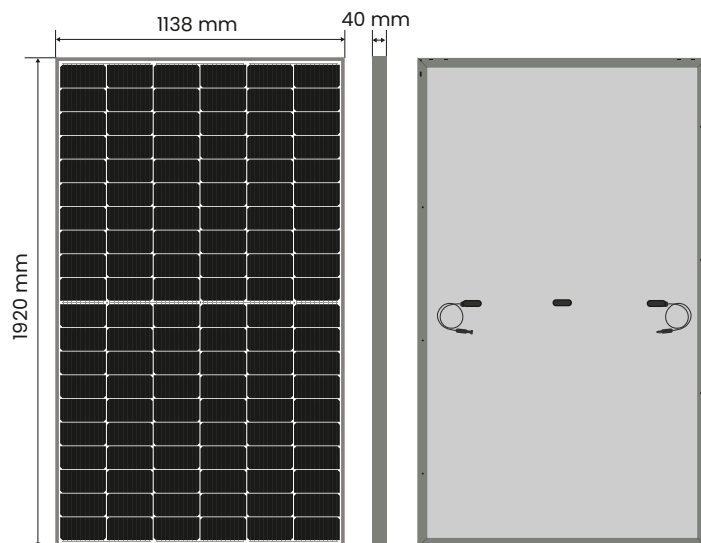
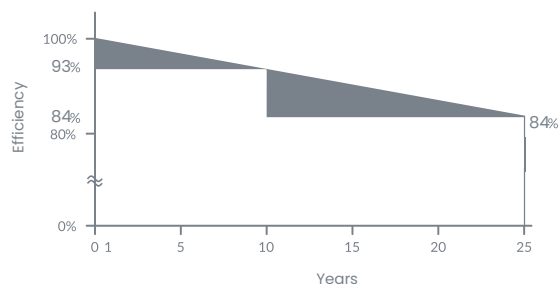
Maximum Snow Load	7000 Pa
Maximum Wind Load	4000 Pa
Hail Endurance	$\varnothing = 55 \text{ mm}$, V=122 km/h

* Results obtained from internal tests functional solutions

TEMPERATURE PARAMETERS

Current temperature coeff.	0,046%/°C
Voltage temperature coeff.	-0,259%/°C
Power temperature coeff.	-0,324%/°C

LINEAR POWER WARRANTY



The technical sheet contains information valid as of the date specified in the document revision.
Due to ongoing research and the introduction of new products, Avrii reserves the right to make
any changes to these parameters without prior notice.

Datasheet_EN_Avrii_SOL_Opti-Power_PRO_Module_BB-445-460_WB-465-475_120_Rev1.0_17.09.2024



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ISO 14001:2015
ISO 45001:2018
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