

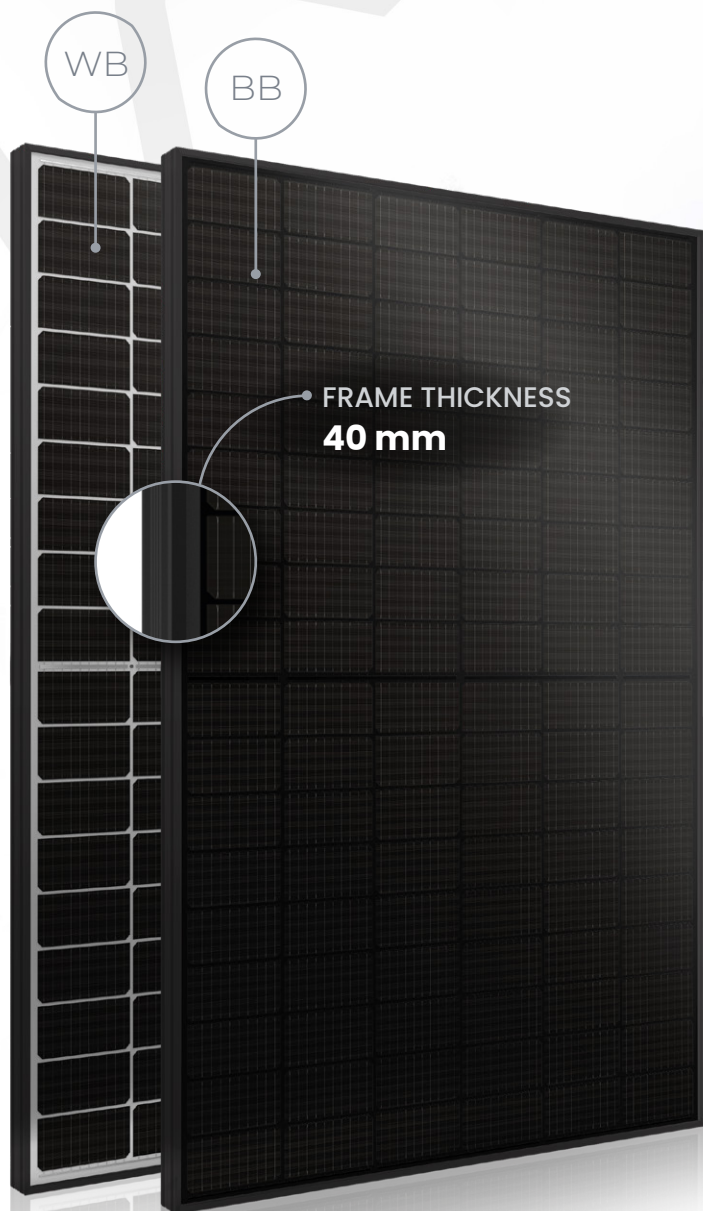
AVRii SOL

MODULES

Avrii SOL Opti-Power PRO

BB-400~415

WB-420~430



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-400~415
Avrii SOL Opti-Power PRO WB-420~430

ELECTRICAL PARAMETERS STC							
	BB-400	BB-405	BB-410	BB-415	WB-420	WB-425	WB-430
Nominal power [Wp]	400	405	410	415	420	425	430
Short-circuit current [A]	13,57	13,63	13,69	13,75	13,84	13,9	13,96
Maximum power current [A]	12,96	13,01	13,06	13,11	13,28	13,33	13,38
Open-circuit voltage [V]	36,71	37,09	37,47	37,85	38,8	38,75	39,01
Maximum power voltage [V]	30,87	31,13	31,39	31,65	31,63	31,89	32,15
Efficiency [%]	20,26%	20,51%	20,77%	21,02%	21,27%	21,53%	21,78%

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

ELECTRICAL PARAMETERS LIC							
	BB-400	BB-405	BB-410	BB-415	WB-420	WB-425	WB-430
Nominal power [Wp]	76,35	77,31	78,27	79,22	80,17	81,13	82,09
Short-circuit current [A]	2,67	2,68	2,70	2,71	2,73	2,74	2,75
Maximum power current [A]	2,52	2,53	2,54	2,55	2,58	2,59	2,60
Open-circuit voltage [V]	34,19	34,54	34,90	35,25	36,13	36,09	36,33
Maximum power voltage [V]	30,30	30,56	30,81	31,07	31,05	31,30	31,56

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	108
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 1,8 x 1,25 x 1,2
Quantity	26 Pcs/Pallet
Transport	28 Pallets/Truck

PRODUCT CERTIFICATIONS	
IEC 61215, IEC 61730	
CE Declaration of Conformity	

MECHANICAL PARAMETERS	
Length [mm]	1735
Width [mm]	1138
Height [mm]	40
Weight [kg]	21,5

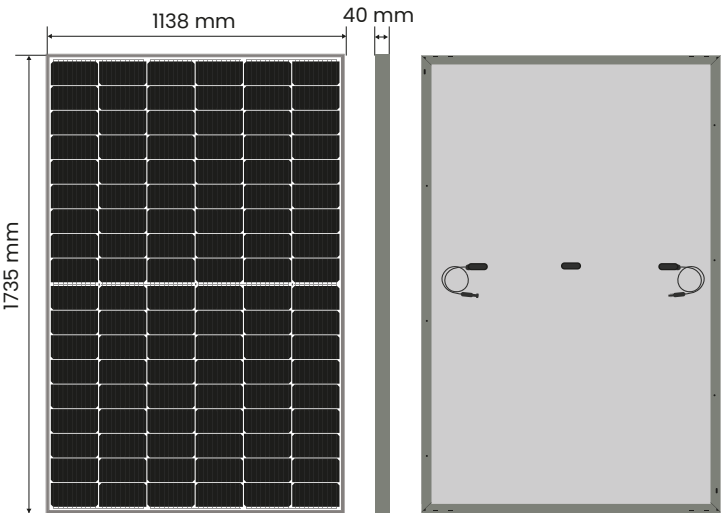
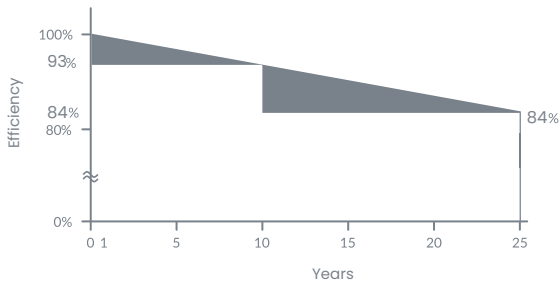
OPERATING PARAMETERS	
Power tolerance	0/+1%
Safety class	II
Maximum system voltage	1000/1500 VDC
Operating temperature	-40 to +85°C
Reverse current protection	25 A

ENDURANCE PARAMETERS*	
Maximum Snow Load	7500 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-400-415_WB-420-430_108_Rev1.0_17.09.2024



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