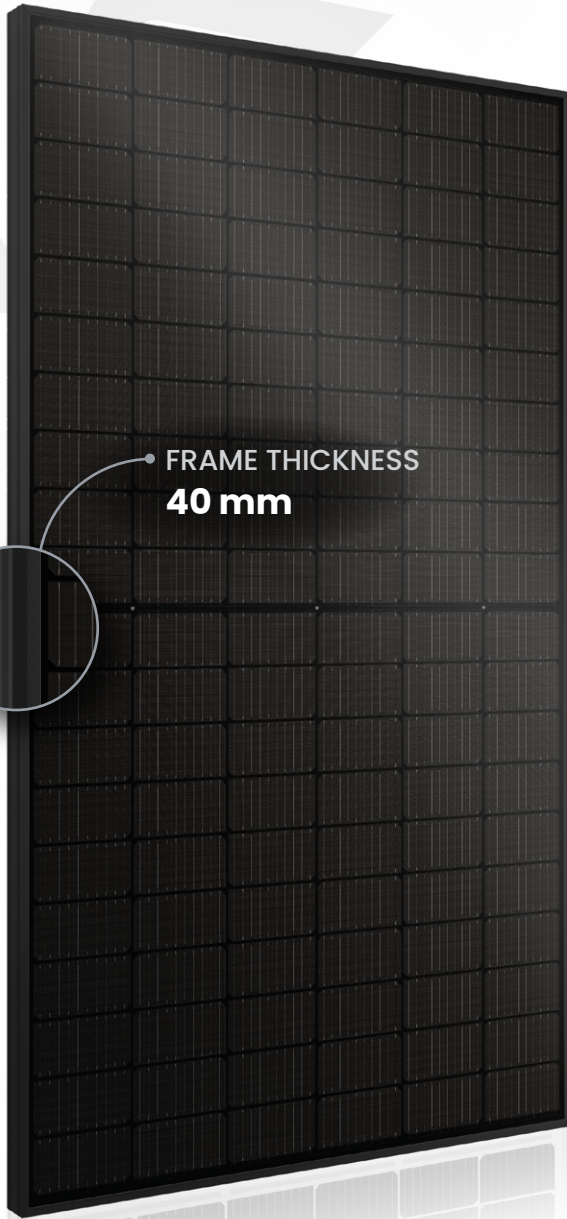


AVRii SOL

MODULES

Avrii SOL Opti-Power PRO
BB-450



FRAME THICKNESS
40 mm



High-efficiency PERC monocrystalline HALF-CELLS



Exceptional weather resistance



Quick and easy assembly

Maximum efficiency
20,60 %



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-450

ELECTRICAL PARAMETERS STC	BB-450
Nominal power [Wp]	450
Short-circuit current [A]	13,64
Maximum power current [A]	13,03
Open-circuit voltage [V]	41,19
Maximum power voltage [V]	34,54
Efficiency [%]	20,60

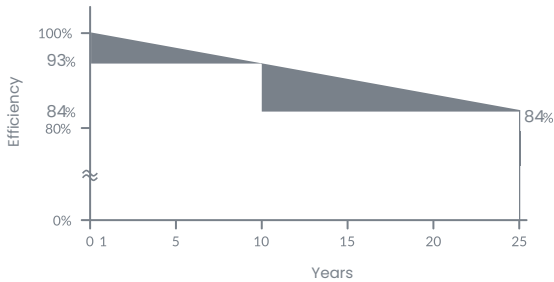
STC: Irradiance 1000 W/m², Air mass 1.5 AM, Cells temperature 25 °C.
Measurement tolerance STC ± 2 %.

ELECTRICAL PARAMETERS LIC	BB-450
Nominal power [Wp]	85,89
Short-circuit current [A]	2,69
Maximum power current [A]	2,53
Open-circuit voltage [V]	38,36
Maximum power voltage [V]	33,90

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

TEMPERATURE PARAMETERS	BB-450
Current temperature coeff.	0,046%/°C
Voltage temperature coeff.	-0,259%/°C
Power temperature coeff.	-0,324%/°C

LINEAR POWER WARRANTY



PRODUCT CERTIFICATIONS

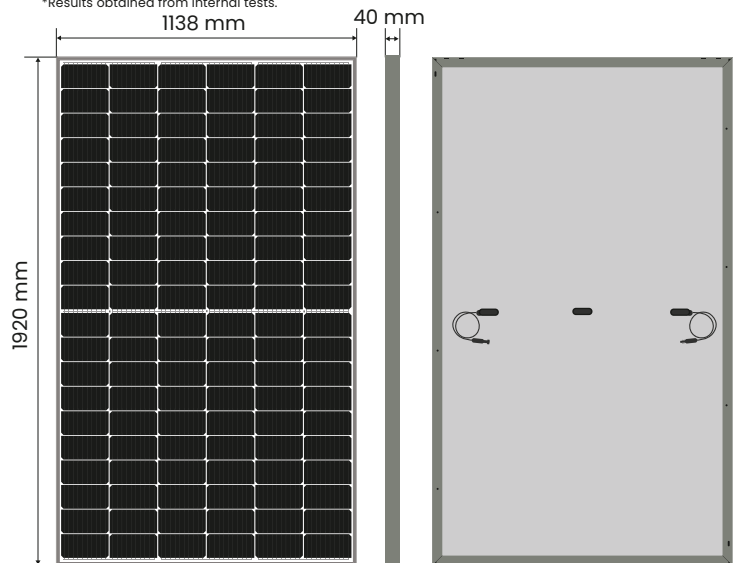
IEC 61215, IEC 61730

CE Declaration of Conformity



OPERATING PARAMETERS	BB-450
Power tolerance	0/+1%
Safety class	II
Maximum system voltage	1000/1500 VDC
Operating temperature	-40 to +85 °C
Reverse current protection	25 A
MECHANICAL PARAMETERS	BB-450
Length [mm]	1920
Width [mm]	1138
Height [mm]	40
Weight [kg]	24,5
COMPOSITION	BB-450
Front glass	3,2 mm, Tempered
Encapsulant	EVA film
Frame	Anodised aluminium, black
Cells	Monocrystalline, Class A
Cells quantity	120
Junction box	IP68, 3 by-pass diodes
Cables	2 x 1100 mm, φ = 4 mm ²
Connectors	MC4 compatible, IP68
ENDURANCE PARAMETERS*	BB-450
Maximum Snow Load	7000 Pa
Maximum Wind Load	4000 Pa
Hail Endurance	φ = 55 mm, V=122 km/h
PACKING	BB-450
Packing system	Carton box 2,0 x 1,25 x 1,2
Quantity	26 Pcs/Pallet
Transport	26 Pallets/Truck

*Results obtained from internal tests.



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_AvriiSOL_Opti-Power_PRO_Module_BB-450_Rev1.3_28.02.2024

