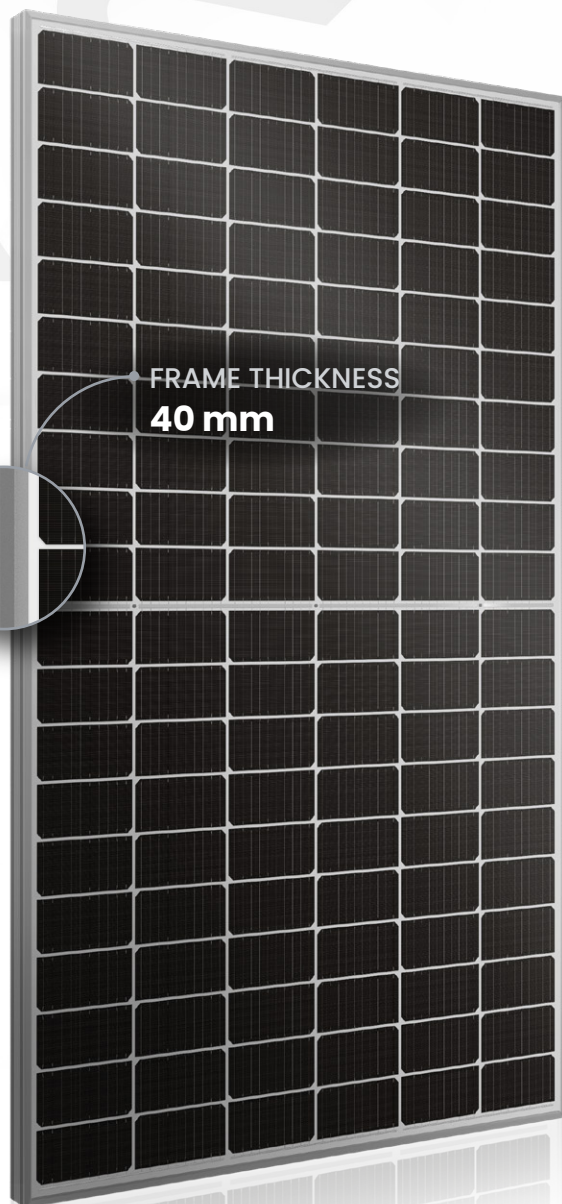


# AVRii SOL

## MODULES

Avrii SOL Opti-Power PRO  
WS-460



FRAME THICKNESS  
40 mm



High-efficiency PERC monocrystalline HALF-CELLS



Exceptional weather resistance



Quick and easy assembly

Maximum efficiency 21,05 %



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 WS-460

ELECTRICAL PARAMETERS STC	WS-460
Nominal power [Wp]	460
Short-circuit current [A]	13,77
Maximum power current [A]	13,13
Open-circuit voltage [V]	41,68
Maximum power voltage [V]	35,06
Efficiency [%]	21,05

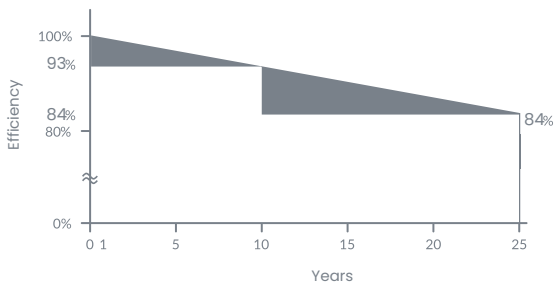
STC: Irradiance 1000 W/m<sup>2</sup>, Air mass 1.5 AM, Cells temperature 25 °C.  
Measurement tolerance STC ± 2 %.

ELECTRICAL PARAMETERS LIC	WS-460
Nominal power [Wp]	87,80
Short-circuit current [A]	2,71
Maximum power current [A]	2,55
Open-circuit voltage [V]	38,82
Maximum power voltage [V]	34,41

LIC: Irradiance 200 W/m<sup>2</sup>, Air mass 1.5 AM, Cells temperature 25 °C.  
Measurement tolerance STC ± 5 %.

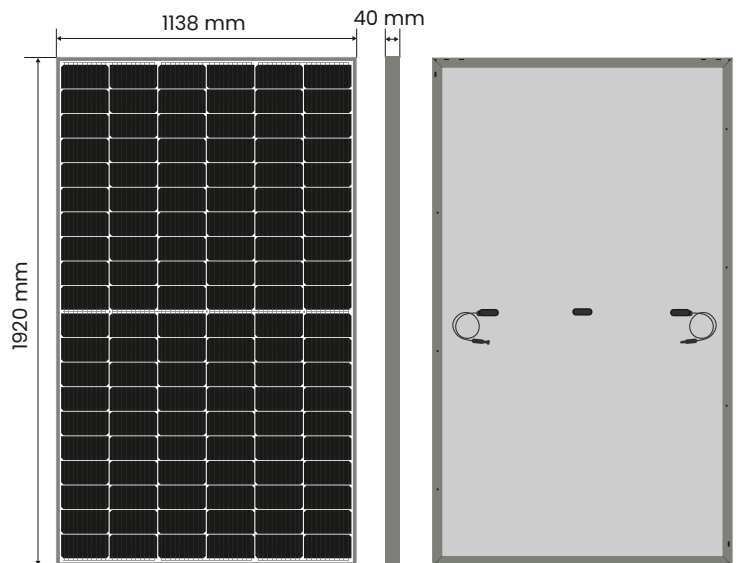
TEMPERATURE PARAMETERS	WS-460
Current temperature coeff.	0,046%/°C
Voltage temperature coeff.	-0,259%/°C
Power temperature coeff.	-0,324%/°C

### LINEAR POWER WARRANTY



OPERATING PARAMETERS	WS-460
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	WS-460
Length [mm]	1920
Width [mm]	1138
Height [mm]	40
Weight [kg]	24,5
COMPOSITION	WS-460
Front glass	3,2 mm, Tempered
Encapsulant	EVA film
Frame	Anodised aluminium, silver
Cells	Monocrystalline, Class A
Cells quantity	120
Junction box	IP68, 3 by-pass diodes
Cables	2 x 1100 mm, $\phi = 4 \text{ mm}^2$
Connectors	MC4 compatible, IP68
ENDURANCE PARAMETERS*	WS-460
Maximum Snow Load	7000 Pa
Maximum Wind Load	4000 Pa
Hail Endurance	$\phi = 55 \text{ mm}$ , $V=122 \text{ km/h}$
PACKING	WS-460
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\_WS-460\_Rev1.0\_05.04.2024

