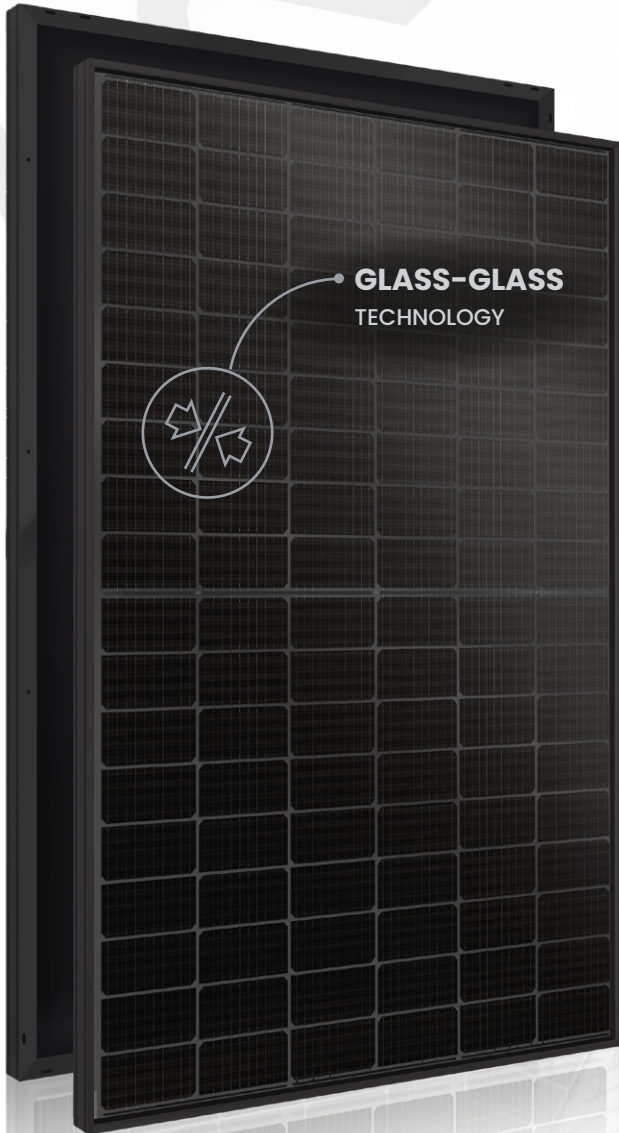


# AVRii SOL

## MODULES

Avrii SOL N-Power

**GG-420 ~ 440 BB**



GLASS-GLASS  
TECHNOLOGY



**20**  
**YEARS**  
Product  
Warranty



Dual tempered glass  
- 2 mm each



High-efficiency multi  
-busbar N-type  
monocrystalline half-cells



Fire class A



Exceptional weather  
resistance

Higher efficiency



PID resistance



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



More than  
*energy*



EUROPEAN  
PRODUCER

# Avrii SOL N-Power MODULE

## Avrii SOL N-Power GG-420~440

### ELECTRICAL PARAMETERS STC

	GG-420	GG-425	GG-430	GG-435	GG-440
Nominal power [Wp]	420	425	430	435	440
Short-circuit current [A]	13,98	14,04	14,10	14,16	14,22
Maximum power current [A]	13,35	13,42	13,49	13,56	13,63
Open-circuit voltage [V]	37,74	37,96	38,18	38,40	38,62
Maximum power voltage [V]	31,48	31,68	31,88	32,08	32,28
Efficiency [%]	21,51	21,76	22,02	22,28	22,53

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

### ELECTRICAL PARAMETERS LIC

	GG-420	GG-425	GG-430	GG-435	GG-440
Nominal power [Wp]	80,23	81,16	82,10	83,04	83,99
Short-circuit current [A]	2,75	2,76	2,78	2,79	2,80
Maximum power current [A]	2,60	2,61	2,62	2,64	2,65
Open-circuit voltage [V]	35,15	35,35	35,56	35,76	35,97
Maximum power voltage [V]	30,90	31,10	31,29	31,49	31,69

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

### TEMPERATURE PARAMETERS

Current temperature coeff.	0,046%/°C
Voltage temperature coeff.	-0,25%/°C
Power temperature coeff.	-0,29%/°C

### PRODUCT CERTIFICATIONS

IEC 61215, IEC 61730
CE Declaration of Conformity

### COMPOSITION

Front glass	2 mm, Tempered
Encapsulant	EPE/EVA film
Back glass	2 mm, Tempered
Frame	Anodised aluminium, black
Cells	N-Type, Class A
Cells quantity	108
Junction box	IP68, 3 by-pass diodes
Cables	2 x 1100 mm, φ = 4 mm <sup>2</sup>
Connectors	MC4 compatible, IP68

### OPERATING PARAMETERS

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

### MECHANICAL PARAMETERS

Length [mm]	1722
Width [mm]	1134
Height [mm]	30
Weight [kg]	24

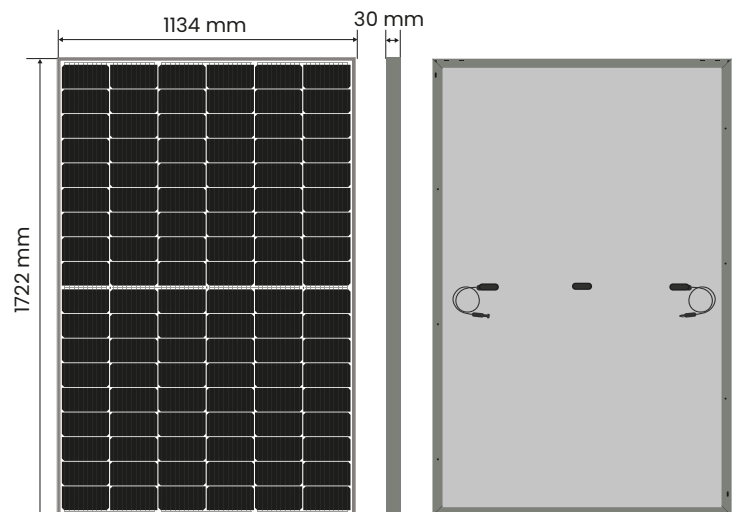
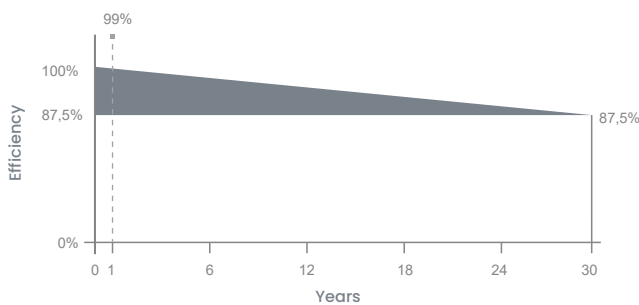
### ENDURANCE PARAMETERS\*

Maximum Snow Load	7000 Pa
Maximum Wind Load	4000 Pa
Hail Endurance	φ = 35 mm, V=82,8 km/h

\*Results obtained from internal tests.

### PACKING

Packing system	Carton box 1,8 x 1,25 x 1,2
Quantity	34 Pcs/Pallet
Transport	28 Pallets/Truck



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\_N-Power\_Modules\_GG-420-440\_BB\_Rev1.1\_04.06.2024

