Arres 3.1 Premium L The solution for more demanding needs



New with N-Type TOPCon Technology



The Arres 3.1 N-Type TOPCon modules for in-roof solutions impress with their highest quality and excellent value for money. With long-term high efficiency, Arres is the perfect choice for sustainable energy generation.

Guaranteed high quality

The high-performance N-TYPE TOPCon solar module with halfcut technology, which is integrated within an attractive frame, comes from the German manufacturer Soluxtec. It is equipped with 4 mm-thick, toughened safety solar glass. Both the development and continuous further enhancement of Arres, as well as the assembly and quality management processes, are carried out in Switzerland. The linear performance warranty is 25 years, the product warranty 10 years.

Main features at a glance

Attractive design with a black frame and black rear film as well as concealed conductor tracks

Optimised glass surface with a very low coefficient of reflection

Excellent performance under poor light conditions

Optimised performance at high temperatures

Superior hail resistance rating: Class 5

Every module 100% electroluminescently tested (EL)

100% European production

Advantages at a glance

Best value for money for a German/Swiss product	
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Quick installation and easy removal

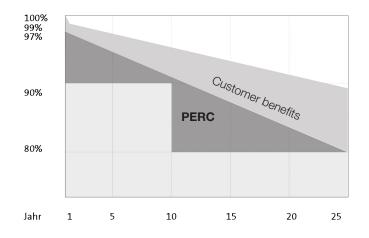
Extremely sturdy

Aesthetically appealing solution

Good rear ventilation due to the low height of the module frame

Very maintenance-friendly

High suction and pressure load resistance



25-year performance warranty

Manufacture

ISO 9001: 2015: Quality management systems

ISO 14001: 2015: Environmental management systems



Info

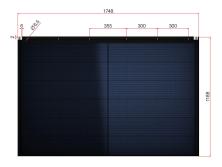
Grid dimensions and dimensioned drawings available on request or at arres.ch



Performance data under standard test conditions (STC) (STC: 1000 W/m², module temperature $25^{\circ}C$ +/-2°C, AM 1.5 – acc. IEC 60904_3)

Electrotechnical parameters				
Rated output	Pmax [Wp]	420	425	
Short circuit current	lsc [A]	13.73	13.81	
Open circuit voltage	Voc [V]	38.52	38.70	
Current	Impp [A]	13:04	13.12	
Voltage	Vmpp [V]	32.24	32.42	
Module efficiency	[%]	21.42	21.67	
Max. system voltage	[V]	1500		
Class range	[Wp]	- 0/+4.99		
Maximum reverse current	I _R [A]	25A		
Pmax temperature coefficient	[%/°K]	- 0.30		
Voc temperature coefficient	[%/°K]	- 0.28		
lsc temperature coefficient	[%/°K]	+ 0,03		
Nominal operating cell temperature	(NOCT) [°C]	45 +/- 2		

Arres 3.1 Premium Module L





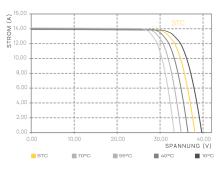
Technical details

Number of cells	108 Half-cut
Cell types	NTYPE TOPCON M10
Glass	4 mm thermally tempered and profiled glass
Backsheet	Long-term UV-resistant insulating film (TÜV tested)
Frame	Aluminium, black anodised
Number of diodes	3
Junction box	IP 68
Plug	Stäubli Evo2
Connection cable length	2 x 1200 mm
Weight	26.5 kg
Module dimensions (packing dimen- sions)	29 modules, 1854x1284x1272 mm (LxWxH)
Operating temperature range	– 40 to + 85°C

Approvals, certificates, standards

max. pressure	10.00 kN/m2 IEC/EN61215 2nd Ed.
max. suction	3.60 kN/m2, IEC/EN61215 2nd Ed.
Hail resistance	Tested up to 50 mm diameter at 30.8 m/s Hail protection class 5, Swiss Hail Protection Register
Operational safety	Class A, protection class II, IEC/EN61730
Module warranty	10-year product warranty, 25-year linear performance warranty
Installation according to	SN EN 50583 - installation category A

STROM (A) VS SPANNUNG (V) 16.00 14.00 10.00 6.00 6.00 0.00





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The specifications are subject to technical changes and revisions without prior notice.

Solarmarkt GmbH reserves the right to the definitive interpretation.