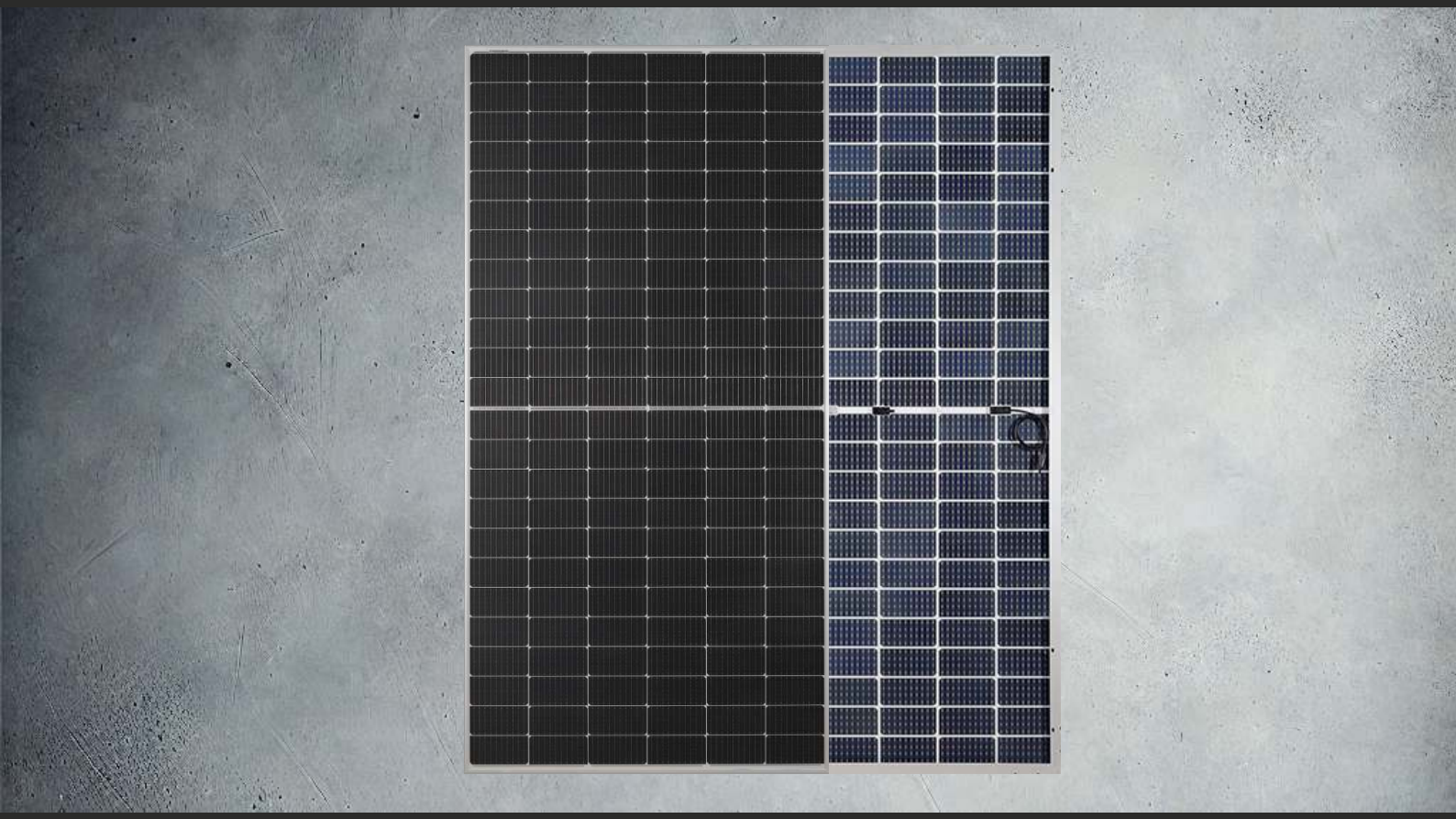
Tenka Orion VIIs Bi-facial Silver Frame



Tenka Orion VIIs - Product features

Module efficiency
23.51% module efficiency and
635W Peak power

Maximum power output
Maximum output of
635 watts

Nanotech coating
Patented Tenka Nanotech technology
for improved light absorption

Longevity
Low degradation, optimised
long-term performance

Product guarantee
30-year product guarantee for
maximum investment security

Performance guarantee
30-year performance guarantee on
87.4 % performance guaranteed

General distribution DACH, BENELUX & Baltics:
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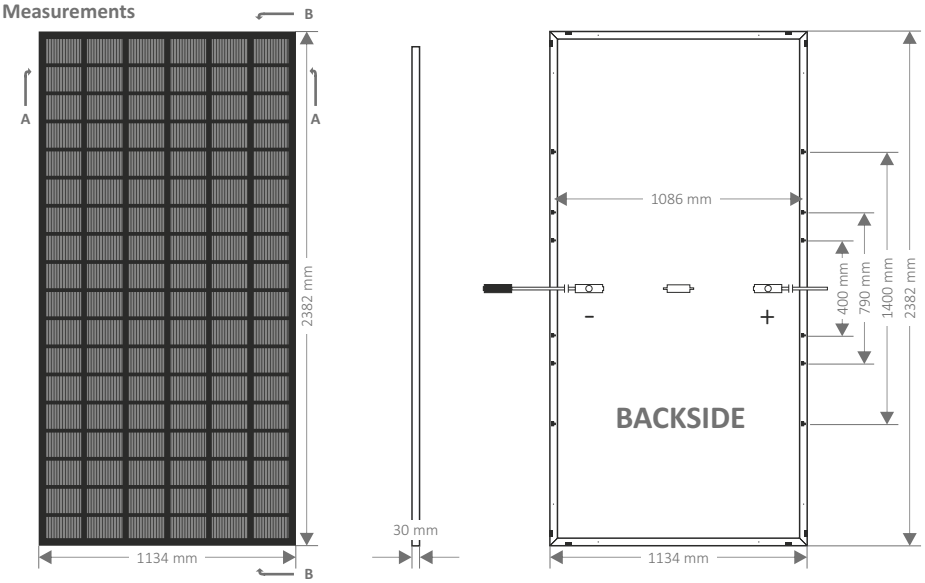
Tenka Orion VIIs

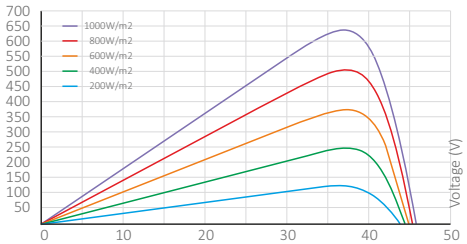
Technical Datasheet	620 W		625 W		630 W		635 W	
	STC [1]	NMOT [2]	STC [1]	NMOT [2]	STC [1]	NMOT [2]	STC [1]	NMOT [2]
Maximum power (Pmax)	620 Wp	474 Wp	625 Wp	478 Wp	630 Wp	482 Wp	635 Wp	486 Wp
Maximum power Voltage (Vmp)	41,2 V	38,7 V	41,4 V	38,9 V	41,6 V	39,1 V	41,8 V	39,3 V
Maximum power Current (Imp)	15,05 A	12,25 A	15,10 A	12,29 A	15,15 A	12,33 A	15,20 A	12,37 A
Open circuit voltage (Voc)	49,6 V	47,1 V	49,9 V	47,4 V	50,2 V	47,7 V	50,5 V	48,0 V
Short-circuit current (Isc)	15,90 A	12,82 A	15,92 A	12,84 A	15,94 A	12,86 A	15,96 A	12,88 A
Module efficiency (%)	22,95%		23,14%		23,32%		23,51%	
Voc and Isc Tolerances	±3%							
Operating temperature (°C)	-40°C~+85°C							
Maximum system voltage	1500V							
Maximum series protection	35A							
Temperature coefficient Pmax	-0,29%/°C							
Temperature coefficient Voc	-0,25%/°C							
Temperature coefficient Isc	+0,045%/°C							
Nominal operating temperature of the cell (NOCT)	45±2 °C							
Cell type	N-Type, TOPCon, mono-cristalline 182 x 210 mm, Tenka Nanotech Coating*							
Number of cells	132							
Dimensions	2382 x 1134 x 30 mm (±2mm)							
Weight	33 Kg							
Glass front	2 mm tempered glass, highly transparent anti-reflective coating							
Glass back	2 mm tempered glass, highly transparent anti-reflective coating							
Frame	Anodized aluminium alloy, Silver							
Junction box	Protection class IP68							
Output cable	TÜV 1 x 4,0 mm² / UL 12AWG, Length 1400 mm							
Resistance to mechanical loads	5.400 Pa acc. IEC 61215-1-2							
Certificates	IEC61215, IEC61730							

Bi-facial backside power increase	620 W	625 W	630 W	635 W
5%	651 Wp	656 Wp	661 Wp	666 Wp
15%	713 Wp	718 Wp	724 Wp	730 Wp
25%	775 Wp	781 Wp	788 Wp	794 Wp

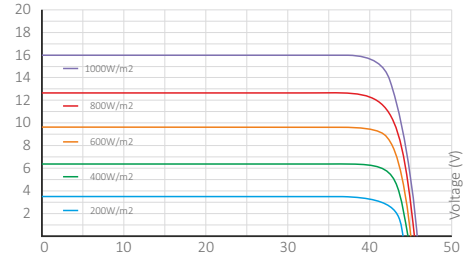
Measurements



P-V Characteristic curve of PV Module



I-V Characteristic curve of PV Module



Packaging information: 36 pieces per pallet, 720 pieces per container (20 pallets)

* By using the Tenka Nanotech layer, 15/20 watts more are generated compared to the standard cell.
[1] STC (standard test conditions): Irradiance 1000W/m2. Cell temperature 25°C. AM 1.5
[2] NMOT (Nominal Module Operating Temperature): Irradiance 800W/m2. NMOT ambient temperature 20°C. AM 1.5.
Wind speed 1m/s. Data at nominal conditions. Errors and omissions excepted. Illustrations may vary.