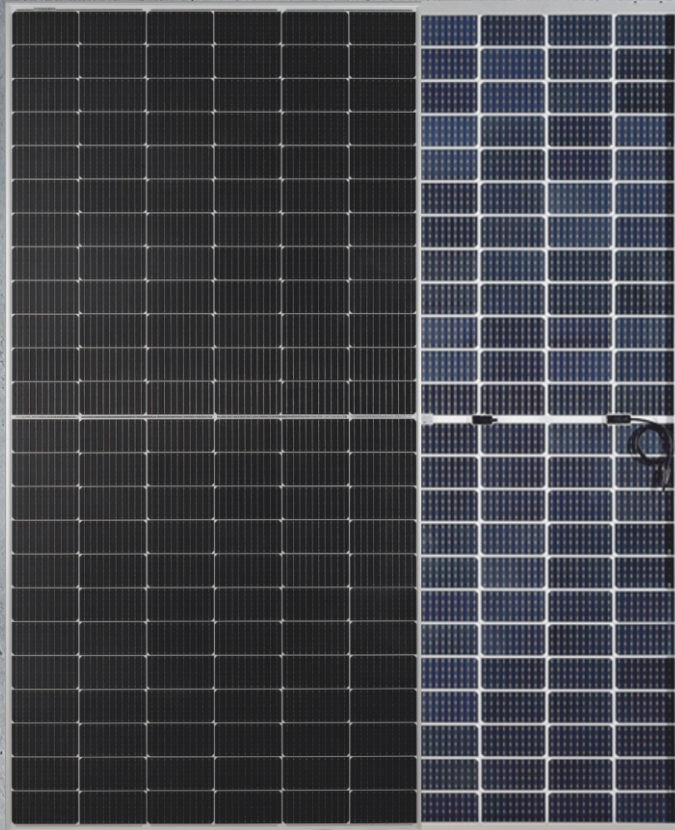


## Tenka Orion VIIs **Bi-facial Silver Frame**



### 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

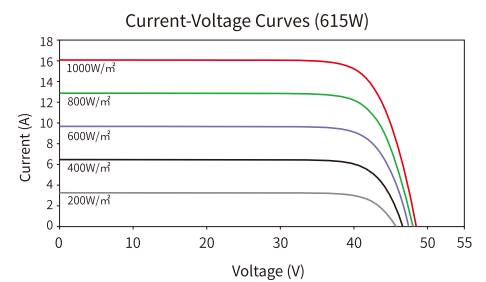
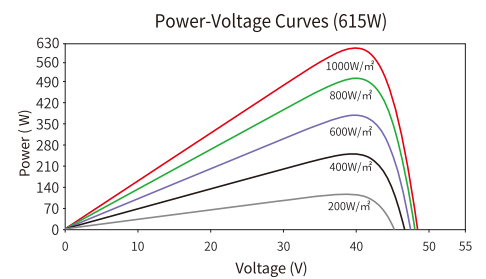
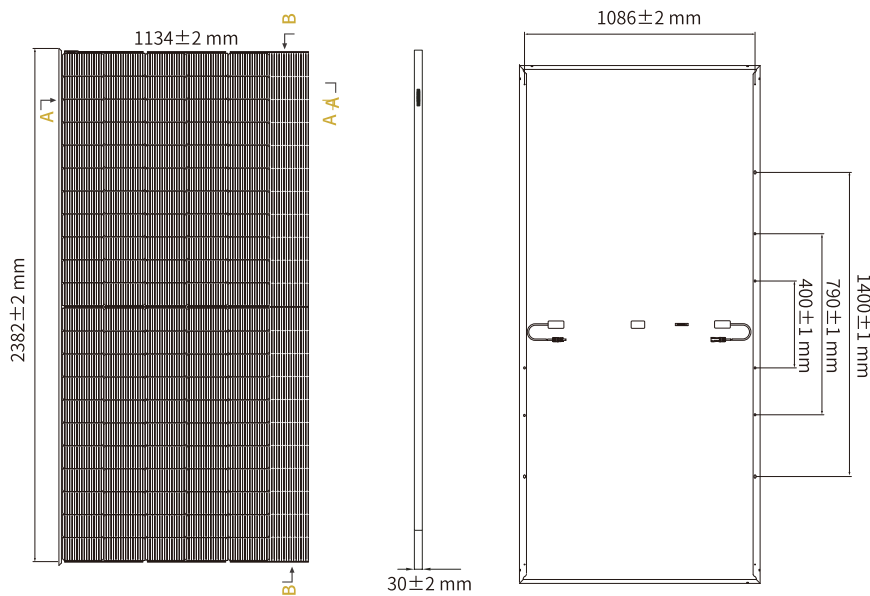
30-year product guarantee for  
maximum investment security



#### Performance guarantee

30-year performance guarantee on  
87.4 % performance guaranteed

Technical Datasheet	620 W		625 W		630 W		635 W	
	STC <sup>1</sup>	NMOT <sup>2</sup>	STC <sup>1</sup>	NMOT <sup>2</sup>	STC <sup>1</sup>	NMOT <sup>2</sup>	STC <sup>1</sup>	NMOT <sup>2</sup>
Maximum power (Pmax)	620Wp	474Wp	625Wp	478Wp	630Wp	482Wp	635Wp	486Wp
Maximum power Voltage (Vmp)	41,2V	38,7V	41,4V	38,9V	41,6V	39,1V	41,8V	39,3V
Maximum power Current (Imp)	15,05A	12,25A	15,10A	12,29A	15,15A	12,33A	15,20A	12,37A
Open circuit voltage (Voc)	49,6V	47,1V	49,9V	47,4V	50,2V	47,7V	50,5V	48,0V
Short-circuit current (Isc)	15,90A	12,82A	15,92A	12,84A	12,84A	12,86A	15,96A	12,88A
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-crystalline 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							
Junction box	Protection class IP68							
Output cable	TÜV 1x4,0 mm <sup>2</sup> / UL 12AWG, Length 1400mm							
Resistance to mechanical loads	5.400 Pa acc. IEC 61215-1-2							
Certificates	IEC61215, IEC61730							
<b>Bi-facial backside power increase</b>	<b>620 W</b>	<b>625 W</b>	<b>630 W</b>	<b>635 W</b>	<b>630 W</b>	<b>635 W</b>	<b>635 W</b>	<b>635 W</b>
5%	651 Wp	656 Wp	662 Wp	667 Wp	662 Wp	667 Wp	667 Wp	667 Wp
15%	716 Wp	719 Wp	725 Wp	730 Wp	725 Wp	730 Wp	730 Wp	730 Wp
25%	775 Wp	781 Wp	788 Wp	794 Wp	788 Wp	794 Wp	794 Wp	794 Wp



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

<sup>1</sup> STC (standard test conditions): Irradiance 1000W/m2. Cell temperature 25°C. AM 1.5

<sup>2</sup> NMOT (Nominal Module Operating Temperature): Irradiance 800W/m2. NMOT ambient temperature 20°C. AM 1.5. Wind speed 1m/s. Data at nominal conditions.

All data subject to change without notice | Version: Feb 2025

