

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

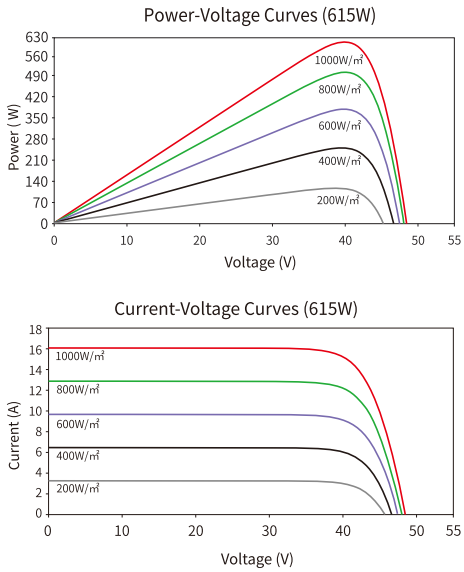
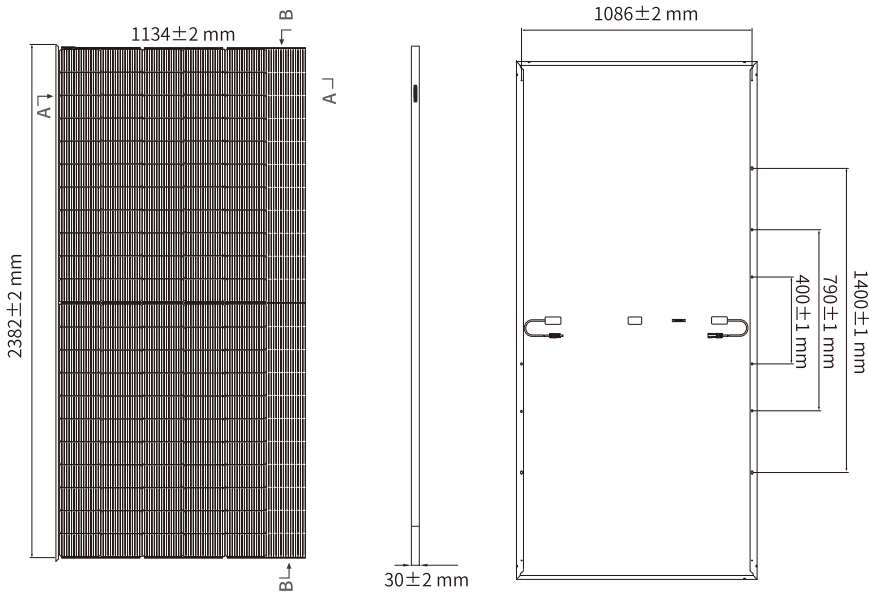
**Product guarantee**

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 ¹	NMOT ²	STC ¹	NMOT ²	STC ¹	NMOT ²	STC ¹	NMOT ²
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-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							
Junction box	Protection class IP68							
Output cable	TÜV 1x4,0 mm ² / UL 12AWG, Length 1400mm							
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		662 Wp		667 Wp	
15%	716 Wp		719 Wp		725 Wp		730 Wp	
25%	775 Wp		781 Wp		788 Wp		794 Wp	



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

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

