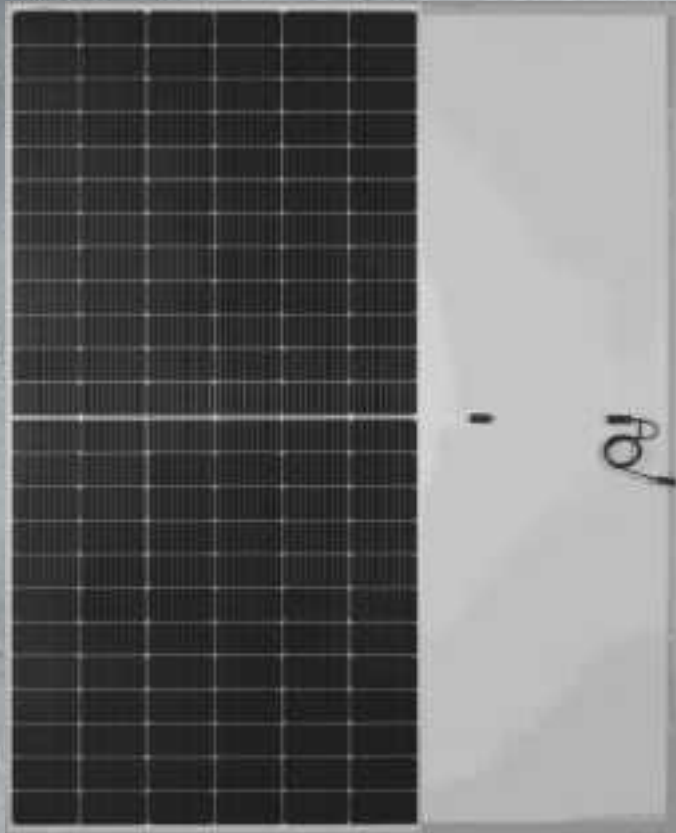


Tenka Orion VII Plus **Silver Frame**



Tenka Orion VII Plus - Product features



Module efficiency

23.41% module efficiency and 605W
Peak power



Maximum power output

Maximum output of
605 watts



Nanotech coating

Patented Tenka Nanotech technology
for improved light absorption



Longevity

Low degradation, optimised long-term
performance



Product guarantee

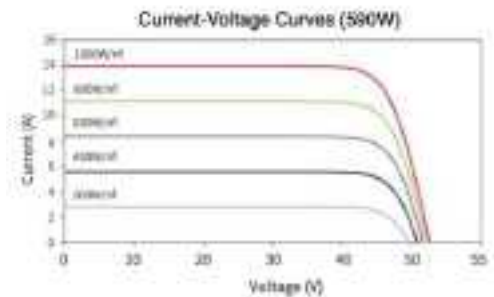
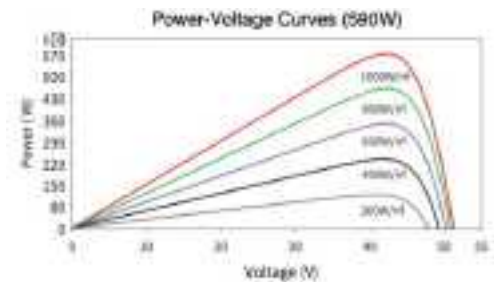
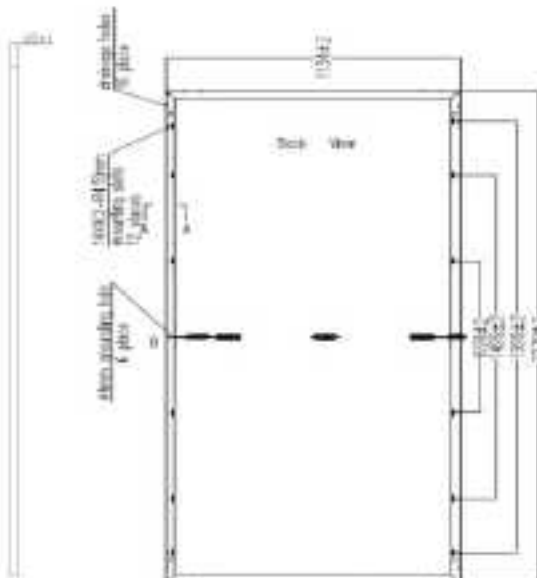
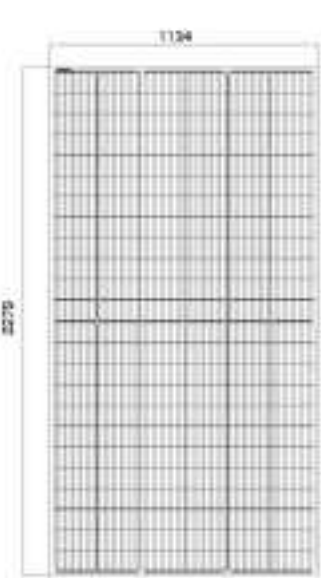
30-year product guarantee for
maximum investment security



Performance guarantee

30-year performance guarantee on
87.4 % performance guaranteed

Technical Datasheet	580 W		585 W		590 W		595 W		600 W		605 W	
	STC ¹	NMOT ²	STC ¹	NMOT ²	STC ¹	NMOT ²	STC ¹	NMOT ²	STC ¹	NMOT ²	STC ¹	NMOT ²
Maximum power (Pmax)	580Wp	436Wp	585Wp	440Wp	590Wp	444Wp	595Wp	448Wp	600Wp	452Wp	605Wp	456Wp
Maximum power Voltage (Vmp)	42,80V	39,69V	43,00V	39,81V	43,20V	39,90V	43,40V	39,99V	43,60V	40,08V	43,80V	40,17V
Maximum power Current (Imp)	13,56A	10,99A	13,61A	11,05A	13,66A	11,13A	13,71A	11,21A	13,77A	11,28A	13,82A	11,36A
Open circuit voltage (Voc)	50,93V	49,16V	51,17V	49,16V	51,41V	49,16V	51,65V	49,16V	51,89V	49,16V	52,13V	49,16V
Short-circuit current (Isc)	14,36A	11,68A	14,42A	11,75A	14,48A	11,82A	14,53A	11,89A	14,59A	11,96A	14,65A	12,03A
Module efficiency (%)	22,45%		22,64%		22,84%		23,02%		23,22%		23,41%	
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	-0,048%/°C											
Nominal operating temperature of the cell (NOCT)	45±5°C											
Cell type	N-Type, TOPCon, mono-crystalline 182 mm, Tenka Nanotech Coating											
Number of cells	144											
Dimensions	2279 x 1134 x 35 mm (±2mm)											
Weight	28,3 Kg											
Glass front	3,2 mm tempered glass, highly transparent anti-reflective coating											
Backside	Grey film											
Frame	Anodized aluminium alloy											
Junction box	Protection class IP68											
Output cable	TÜV 1x4,0 mm ² / UL 12AWG, Length 1200mm											
Resistance to mechanical loads	5.400 Pa acc. IEC 61215-1-2											
Certificates	IEC61215, IEC61730											



Packaging information: 31 pieces per pallet, 620 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

