

Tenka Orion III Ultra **Black Frame**



Tenka Orion III Ultra - Product features



Module efficiency

23.76% module efficiency and 485W
Peak power under 2 square metres



Hail protection class 4

Hail protection class 4 for protection
against hailstones up to 45 mm



Nanotech coating

Patented Tenka Nanotech technology
for improved light absorption



Longevity

Low degradation, optimised long-term
performance



Product guarantee

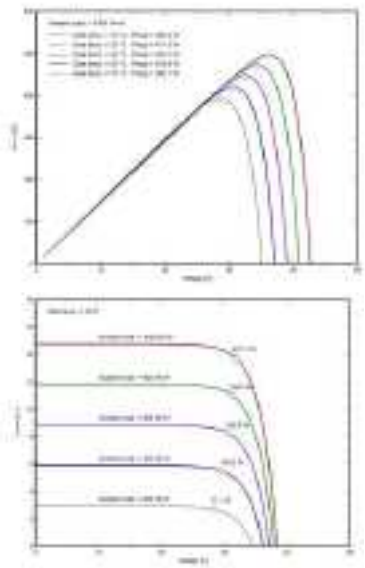
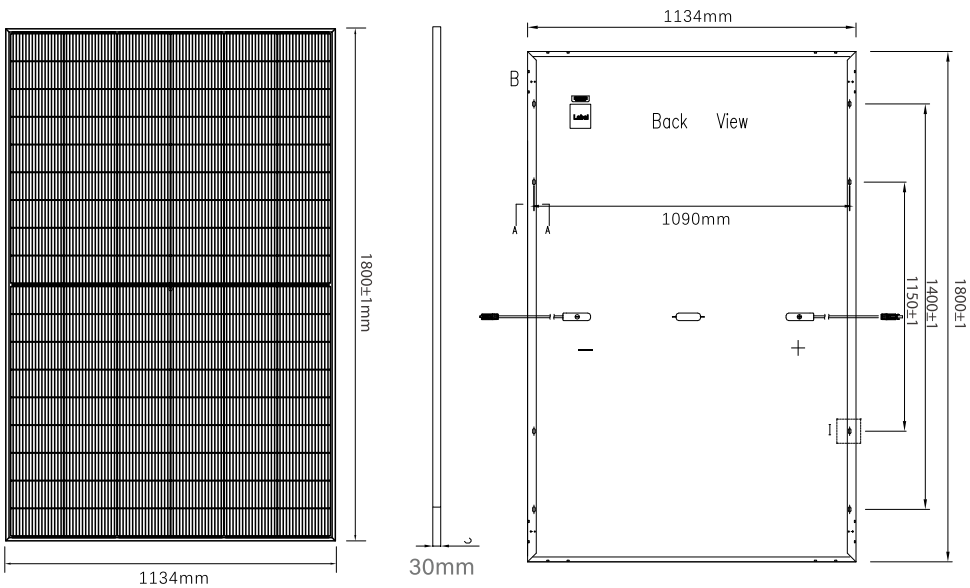
30-year product guarantee for
maximum investment security



Performance guarantee

30-year performance guarantee on
87.4 % performance guaranteed

Technical Datasheet	470 W		475 W		480 W		485 W	
	STC ¹	NMOT ²	STC ¹	NMOT ²	STC ¹	NMOT ²	STC ¹	NMOT ²
Maximum power (Pmax)	470Wp	356Wp	475Wp	360Wp	480Wp	364Wp	485Wp	368Wp
Maximum power Voltage (Vmp)	33,62V	30,93V	33,82V	31,11V	34,02V	31,29V	34,22V	31,47V
Maximum power Current (Imp)	13,98A	11,52A	14,04A	11,57A	14,11A	11,64A	14,18A	11,70A
Open circuit voltage (Voc)	40,18V	36,56V	40,38V	36,75V	40,58V	36,93V	40,78V	37,11V
Short-circuit current (Isc)	14,71A	11,87A	14,89A	11,97A	14,98A	12,13A	15,08A	12,29A
Module efficiency (%)	23,02%		23,27%		23,52%		23,76%	
Voc and Isc Tolerances	±3%							
Operating temperature (°C)	-40°C~+85°C							
Maximum system voltage	1500V							
Maximum series protection	25A							
Temperature coefficient Pmax	-0,29%/°C							
Temperature coefficient Voc	-0,25%/°C							
Temperature coefficient Isc	-0,29%/°C							
Nominal operating temperature of the cell (NOCT)	45±2 °C							
Cell type	N-Type, TOPCon, mono-cristalline 183 mm, Tenka Nanotech Coating							
Number of cells	108							
Dimensions	1800 x 1134 x 30 mm (±2mm)							
Weight	21,5 Kg							
Glass front	3,2 mm tempered glass, highly transparent anti-reflective coating							
Backside	White film							
Frame	Anodized aluminium alloy							
Junction box	Protection class IP68							
Output cable	TÜV 1x4.0 mm2 / UL 12AWG, length 1100mm with original Stäubli MC4 connectors							
Resistance to mechanical loads	5.400 Pa acc. IEC 61215-1-2							
Certificates	IEC61215, IEC61730							



Verpackungsinformationen: 36 Stück pro Palette, 864 Stück pro Container (24 Paletten)

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

