

Tenka Solar Ultimate 480 | 485 | 490 - Back Contact Bifacial Full Black**Tenka Solar Ultimate - Product features****Outstanding Performance**

Up to 490 watts power and up to
24.0% module efficiency

**Shading Optimisation**

Partial Shading Optimisation for
higher yields

**Back contact**

Back contact technology for
excellent Micro-crack resistance

**Bifacial design**

Additional yield through rear
power increase

**Aesthetic design**

Consistent black design Without
visible front contacts

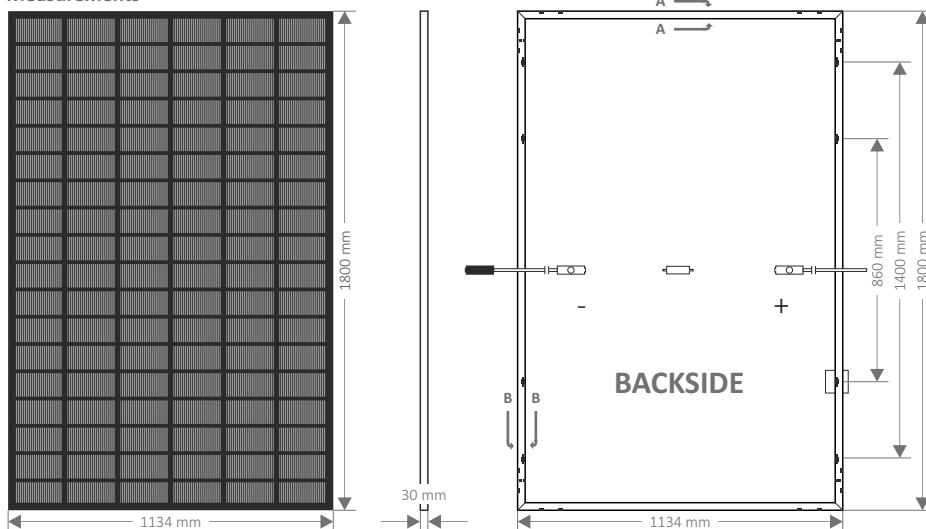
**Excellent guarantee**

30-year performance guarantee on
88.85 %. 25-year product guarantee

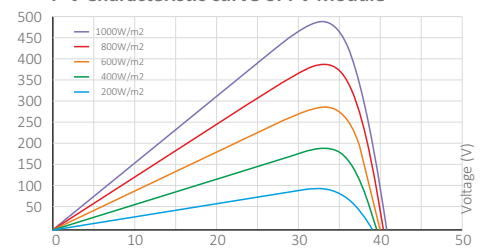
Tenka Solar Ultimate

Technical Datasheet	480 W		485 W		490 W	
	STC ¹	NMOT ²	STC ¹	NMOT ²	STC ¹	NMOT ²
Maximum power (Pmax)	480 Wp	364 Wp	485 Wp	368 Wp	490 Wp	372 Wp
Maximum power Voltage (Vmp)	33,84 V	31,11 V	33,94 V	32,20 V	34,04 V	32,30 V
Maximum power Current (Imp)	14,19 A	11,35 A	14,30 A	11,44 A	14,40 A	11,51 A
Open circuit voltage (Voc)	40,76 V	38,67 V	40,89 V	38,80 V	41,02 V	38,92 V
Short-circuit current (Isc)	14,96 A	12,09 A	15,03 A	12,15 A	15,10 A	12,21 A
Module efficiency (%)	23,5%		23,8%		24,0%	
Voc and Isc Tolerances	0~+3%					
Operating temperature (°C)	-40°C~+85°C					
Maximum system voltage	1500V					
Maximum series protection	25A					
Temperature coefficient Pmax	-0,26%/°C					
Temperature coefficient Voc	-0,22%/°C					
Temperature coefficient Isc	+0,05%/°C					
Nominal operating temperature of the cell (NOCT)	45±2 °C					
Cell type	N-Type, Back Contact, mono-cristalline					
Number of cells	108 (6 x 18)					
Dimensions	1800 x 1134 x 30 mm (±2mm)					
Weight	24,5 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, Black					
Junction box	Protection class IP68					
Output cable	TÜV 1x4,0mm2/UL12AWG, Length 1200mm with original Stäubli MC4 Connectors					
Resistance to mechanical loads	5.400 Pa acc. IEC 61215-1-2					
Certificates	IEC61215, IEC61730					
Bi-facial backside power increase	480 W		485 W		490 W	
10%	528 Wp		534 Wp		539 Wp	
20%	576 Wp		582 Wp		588 Wp	
30%	624 Wp		631 Wp		637 Wp	

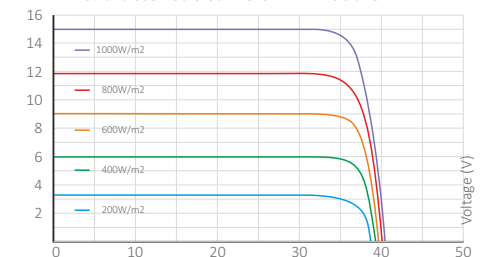
Measurements



P-V Characteristic curve of PV Module



I-V Characteristic curve of PV Module



Packaging information: 37 pieces per pallet, 888 pieces per container (24 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. Errors and omissions excepted. Illustrations may vary.