# TCL SOLAR T CLASS

## Solar Panel

Product: HSM-ND66-GR

Power Range: 605-625 W



Ideal for commercial applications





### High energy yield

- Consistent energy production across all weather conditions
- Bifacial energy generation

#### **Elegant design**

- Sleek panel aesthetic
- High-durability frame and heat-strengthened glass

#### Reliable operation

- Rigorous supply chain qualification procedures
- Easy to install
- Backed by a bankable company

#### Comprehensive warranty coverage

Product and power coverage 25-30 Years

99.0% Year 1 minimum warranted output

Maximum annual degradation 0.40%





#### T CLASS POWER: 605-625 W | EFFICIENCY: Up to 23.1%

Electrical Data, Front STC Characteristics <sup>1</sup>					
	HSM-ND66-GR625	HSM-ND66-GR620	HSM-ND6-GR615	HSM-ND66-GR610	HSM-ND66-GR605
Nominal Power (Pnom) <sup>2</sup>	625 W	620 W	615 W	610 W	605 W
Power Binning	3/0%	3/0%	3/0%	3/0%	3/0%
Panel Efficiency	23.1%	23.0%	22.8%	22.6%	22.4%
Rated Voltage (Vmpp)	41.18 V	40.98 V	40.79 V	40.59 V	40.39 V
Rated Current (Impp)	15.18 A	15.13 A	15.08 A	15.03 A	14.98 A
Open-Circuit Voltage (Voc) <sup>2</sup>	49.16 V	48.94 V	48.72 V	48.50 V	48.28 V
Short-Circuit Current (Isc) <sup>2</sup>	16.10 A	16.05 A	16.00 A	15.95 A	15.90 A

BNPI Data <sup>3</sup>					
Nominal Power (Pmax) <sup>2</sup>	690 W	685 W	679 W	674 W	668 W
Open-Circuit Voltage (Voc) <sup>2</sup>	49.30 V	49.11 V	48.86 V	48.66 V	48.43 V
Short-Circuit Current (Isc) <sup>2</sup>	17.77 A	17.73 A	17.66 A	17.61 A	17.55 A

Bifacial Gain <sup>4</sup>					
Pmax with 5% Bifacial Gain	656W	651 W	646 W	641 W	635 W
Isc with 5% Bifacial Gain	16.91 A	16.85 A	16.80 A	16.75 A	16.70 A
Pmax with 10% Bifacial Gain	688 W	682 W	677 W	671 W	666 W
Isc with 10% Bifacial Gain	17.71 A	17.66 A	17.60 A	17.55 A	17.49 A

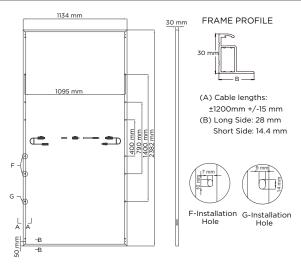
Electrical Data		
Bifaciality (φPmax/φlsc)	80% +/-5%	
Bifaciality (φVoc)	98% +/-2%	
Maximum System Voltage	1500 V IEC	
Testing Temperature	-40°C to +85°C	
Operation Temperature	-40°C to +70°C (IEC TS 63126)	
Maximum Series Fuse	30 A	
Power Temp. Coef.	-0.29% / °C	
Voltage Temp. Coef.	-0.25% / °C	
Current Temp. Coef.	0.045% / °C	

Packaging Configuration		
Number of modules per pallet	36	
Number of pallets per 40ft HQ container	20	
Number of modules per container	720	

	Tests And Certifications
Standard Tests	IEC 61215, IEC 61730
Fire Rating	Class A (IEC 61730-2 / UL 790)
Protection Class	Class II (IEC 61140)
Quality Certs	ISO 9001:2015, ISO 14001:2015
EHS Compliance	ISO 45001-2018, Recycling Scheme



Mechanical Data		
Solar Cells	N-Type TOPCon	
Glass	2.0 mm + 2.0 mm, high transmission heat strengthened glass, AR coating on front glass	
Junction Box	IP-68, 3 bypass diodes	
Connector	Stäubli MC4-EVO2	
Weight	32.6 kg	
Max. Load <sup>5</sup>	Wind: 2400 Pa, 245 kg/m² front & back Snow: 5400 Pa, 550 kg/m² front	
Impact Resistance	25 mm diameter hail at 23 m/s	
Frame	Black Anodized Aluminum Alloy	





Please read the safety and installation instructions. Visit www.sunpowerglobal.com/PVInstallGuide. Paper version can be requested through techsupport.ROW@sunpowerglobal.com



<sup>1</sup> Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage. 2 Measurements tolerance +/-3%.

<sup>3</sup> BNPI Test Condition (front 1000 W/m², rear 135W/m² irradiance, AM 1.5, 25° C).

<sup>4</sup> The additional gain from the back side of the panel compared to the power of the front side of the panel at the standard test conditions. It depends on mounting (structure, height, tilt angle etc.) and albedo of the underlying surface.

<sup>5</sup> Test load as per IEC 61215-2 is equal to design load with safety factor = 1.5. See "Safety and Installation Instructions" for details.