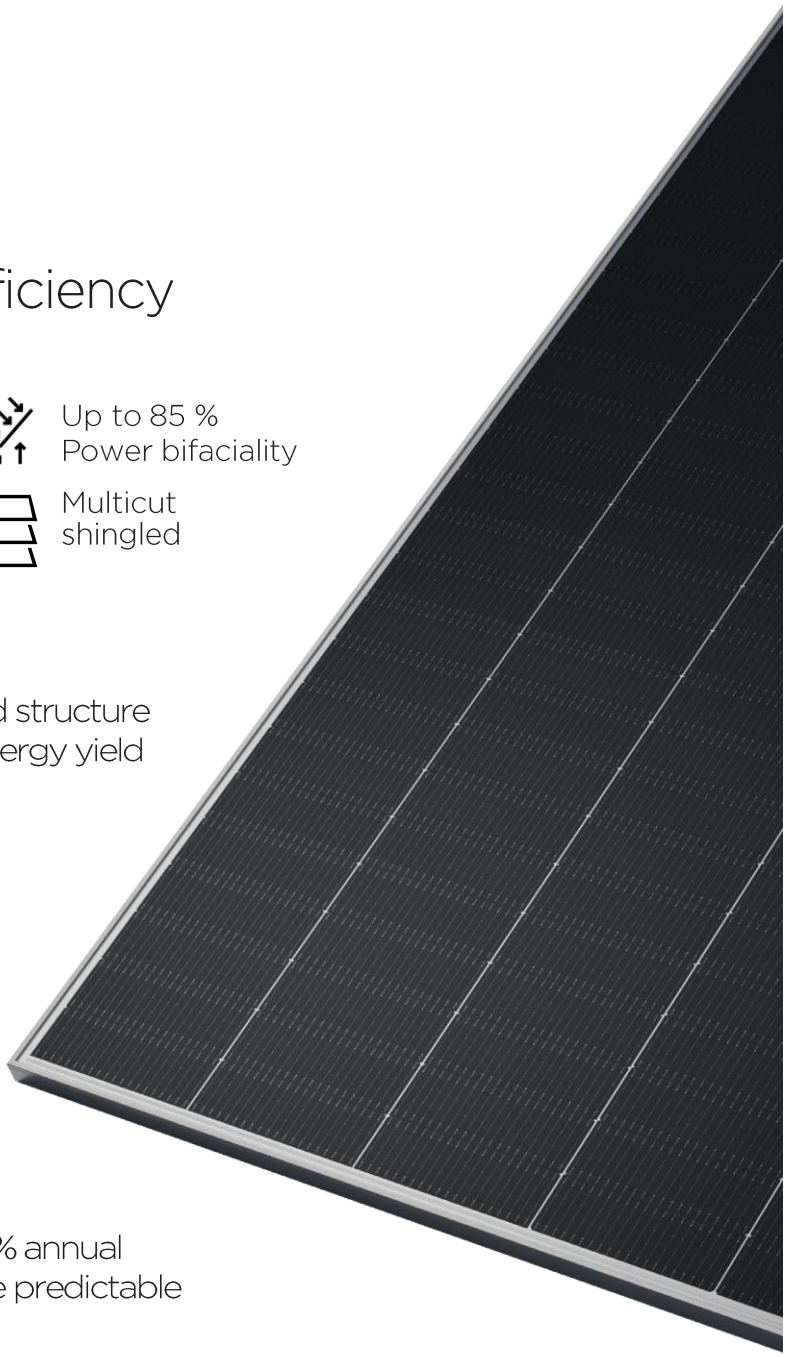
TCL SOLAR

T5 Pro L

Solar panel - HSM-NT66-GH

640–670 W | Up to 24.8 % efficiency



210R+ N-type TOPCon

G12 wafer, lager Production area

Up to 85 % Power bifaciality

Silver framed Glass-glass with white tint

Multicut shingled

Higher output per installed MW

N-Type TOPCon bifacial technology and shingled structure deliver higher conversion efficiency, increasing energy yield from every installed megawatt.

Stable yield in real world conditions

Optimized circuit architecture helps maintain production under partial shading and low light conditions, reducing yield risk across diverse site conditions.

Long term performance security

Multi-cut shingled glass -glass construction, 0.35 % annual degradation, and 30-year power warranty ensure predictable lifetime energy and bankable returns

Comprehensive warranty coverage

15-year Product warranty
30-year Linear Power coverage
99.0% minimum warranted output at Year 1
Maximum annual degradation 0.35%

15 PRODUCT | 30 POWER WARRANTY

Comprehensive Products and System Certificates

IEC 61215 / IEC 61730 ISO 9001:2015 ISO 45001:2018 ISO 14001:2015

TIER 1 BloombergNEF

SOLAR STEWARDSHIP INITIATIVE

Learn more about TCL Solar panels
www.tclsolar.com/resources

HSM-NT66-GH 640~670 | T5 Pro L

670 W Maximum power | **24.8 %** Maximum efficiency | **0~+3 %** Power tolerance

Electrical Parameters (STC* & BNPI*)

* STC: Irradiance 1000 W/m², Cell Temperature 25 °C, AM1.5, Measuring Tolerance: ±3 %
* BNPI: Back Irradiance 135 W/m², Cell Temperature 25 °C, AM1.5, Measuring Tolerance: ±3 %

Test Conditions		STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power	Pmax (W)	640	713	645	719	650	725	655	730	660	736	665	741	670	747
Open Circuit Voltage	Voc (V)	49.7	49.7	49.85	49.85	50.0	50.0	50.15	50.15	50.3	50.3	50.43	50.43	50.58	50.58
Short Circuit Current	Isc (A)	16.10	17.95	16.17	18.03	16.24	18.10	16.31	18.18	16.38	18.26	16.45	18.34	16.52	18.42
Maximum Power Voltage	Vmp (V)	41.74	41.74	41.87	41.87	42.0	42.0	42.14	42.14	42.27	42.27	42.4	42.4	42.53	42.53
Maximum Power Current	Imp (A)	15.34	17.10	15.41	17.18	15.48	17.26	15.55	17.33	15.62	17.41	15.69	17.49	15.76	17.57
Module Efficiency	(%)	23.7		23.9		24.1		24.2		24.4		24.6		24.8	

Electrical Characteristic with Different Bifacial Gain*

* The additional gain from the back side depends on the mounting (structure, height, tilt angle etc.) and albedo of the ground

Bifacial Gain		5 %	10 %	5 %	10 %	5 %	10 %	5 %	10 %	5 %	10 %	5 %	10 %	5 %	10 %
Maximum Power	Pmax (W)	672	704	677	710	683	715	688	721	693	726	698	732	704	737
Open Circuit Voltage	Voc (V)	49.7	49.7	49.85	49.85	50.0	50.0	50.15	50.15	50.3	50.3	50.43	50.43	50.58	50.58
Short Circuit Current	Isc (A)	16.91	17.71	16.98	17.79	17.05	17.86	17.13	17.94	17.20	18.02	17.27	18.10	17.35	18.17
Maximum Power Voltage	Vmp (V)	41.74	41.74	41.87	41.87	42.0	42.0	42.14	42.14	42.27	42.27	42.4	42.4	42.53	42.53
Maximum Power Current	Imp (A)	16.11	16.87	16.18	16.95	16.20	17.03	16.33	17.11	16.40	17.18	16.47	17.26	16.55	17.34

Temperature Coefficient

Nominal Module Operating Temperature*	43±2 °C
Temperature Coefficient of Isc	+0.046 %/°C
Temperature Coefficient of Voc	-0.24 %/°C
Temperature Coefficient of Pmax	-0.26 %/°C

Operating Parameters

Operating Temperature	-40~+70 °C
Maximum System Voltage	1500 V DC
Maximum Series Fuse Rating	30 A
Power Bifaciality	85±5 %
Safety Protection	Class II
Fire Rating	Class C

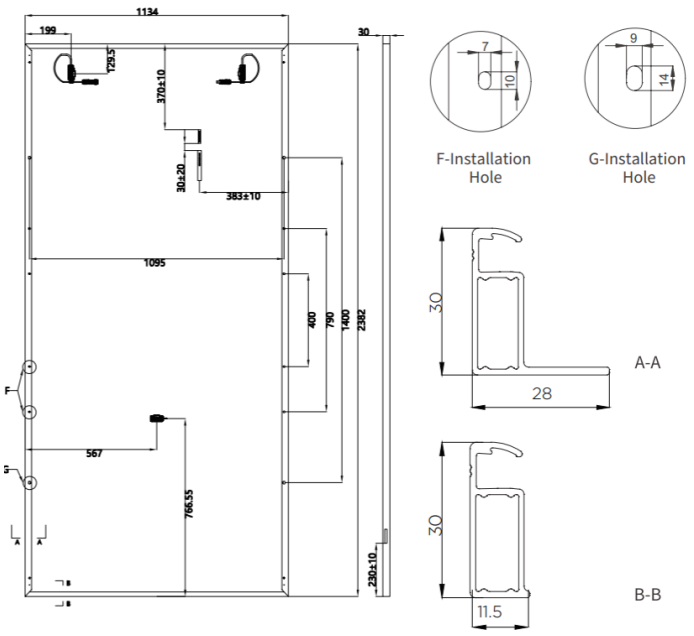
Mechanical Data

* Please refer to installation manual for details

No. of Cells	198 pcs (6×33)
Dimension	2382×1134×30 mm
Weight	32.6 kg ±3 %
Front Glass	2.0 mm, Heat Strengthened, AR coating Glass
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminum Alloy
J-Box / Diodes	IP68 / three diodes
Cables / Connector	4.0 mm² / ±1400 mm / EVO2A
Maximum Static Load	Front: 5400 Pa / Back: 2400 Pa*

Engineering Drawing

[Unit: mm]



Packaging Configuration

Modules per Pallet	36 pcs
Modules per 40'HQ Container	720 pcs

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

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