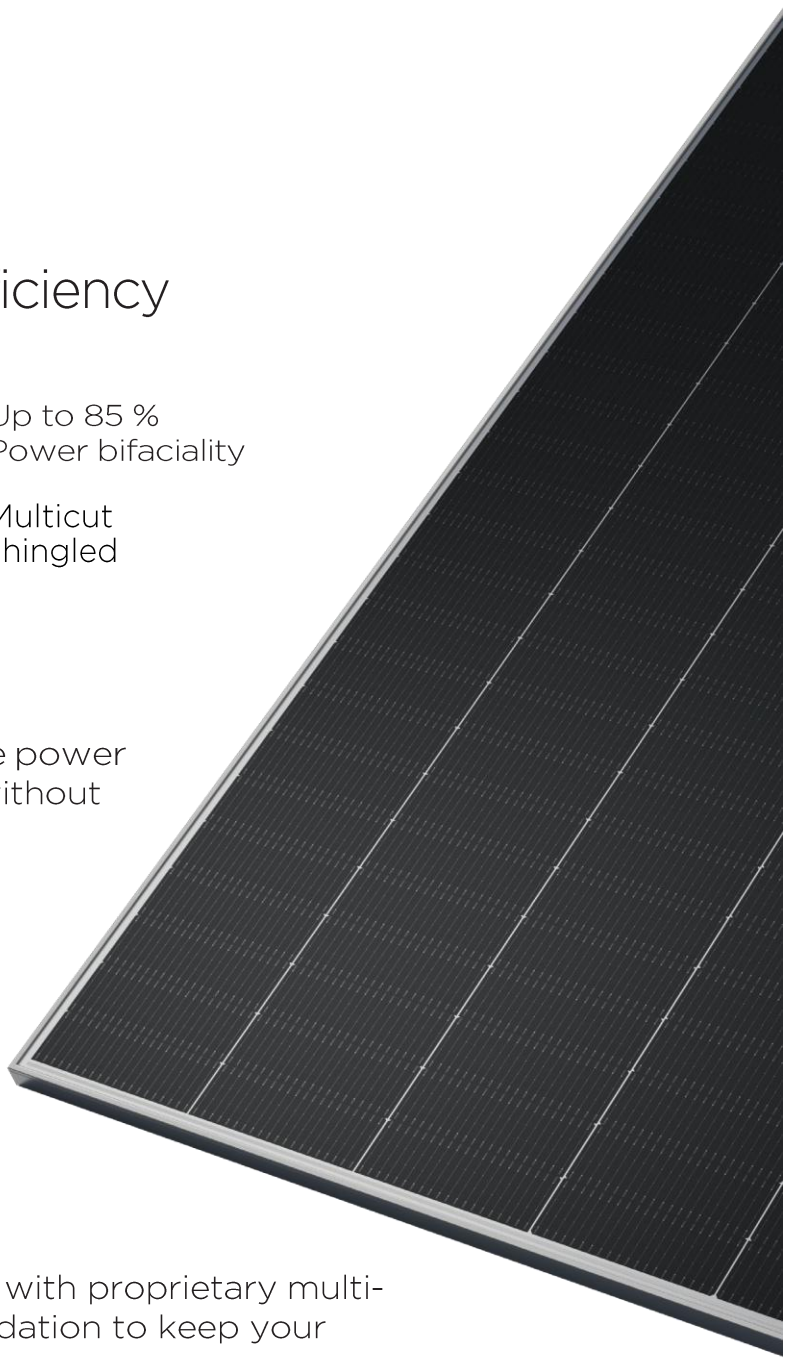
TCL SOLAR

T5 Pro M

Solar panel - HSM-NT60-GH

565–590 W | Up to 24.0 % efficiency



210R+ N-type TOPCon

G12 wafer, lager production area

Up to 85 % Power bifaciality

Silver framed glass-glass with white tint

Multicut shingled

More energy from your system

High efficiency N Type cells generate more power from the same space-maximizing savings without expanding your system

Consistent power, all day long

Smart design helps maintain energy production even with shade or low light conditions

Built to protect your investment

Durable glass glass construction combined with proprietary multi-cut shingled technology enables low degradation to keep your system offsetting your bills for decades

Comprehensive warranty coverage

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

25 PRODUCT | 30 POWER WARRANTY

TIER 1 BloombergNEF

SOLAR STEWARDSHIP INITIATIVE

Comprehensive Products and System Certificates

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

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

HSM-NT60-GH 565~590 | T5 Pro M

590 W Maximum power | **24.0 %** 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
Maximum Power	Pmax (W)	565	630	570	635	575	641	580	647	585	652	590	658
Open Circuit Voltage	Voc (V)	44.86	44.86	45.04	45.04	45.22	45.22	45.40	45.40	45.58	45.58	45.76	45.76
Short Circuit Current	Isc (A)	16.01	17.85	16.07	17.91	16.13	17.98	16.19	18.05	16.25	18.11	16.31	18.18
Maximum Power Voltage	Vmp (V)	37.06	37.06	37.24	37.24	37.42	37.42	37.60	37.60	37.77	37.77	37.95	37.95
Maximum Power Current	Imp (A)	15.25	17.00	15.31	17.07	15.37	17.13	15.43	17.20	15.49	17.27	15.55	17.33
Module Efficiency	(%)	23.0		23.2		23.4		23.6		23.8		24.0	

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 %
Maximum Power	Pmax (W)	593	622	599	627	604	633	609	638	614	644	620	649
Open Circuit Voltage	Voc (V)	44.86	44.86	45.04	45.04	45.22	45.22	45.40	45.40	45.58	45.58	45.76	45.76
Short Circuit Current	Isc (A)	16.81	17.61	16.87	17.68	16.94	17.74	17.00	17.81	17.06	17.88	17.13	17.94
Maximum Power Voltage	Vmp (V)	37.06	37.06	37.24	37.24	37.42	37.42	37.60	37.60	37.77	37.77	37.95	37.95
Maximum Power Current	Imp (A)	16.01	16.78	16.08	16.84	16.14	16.91	16.20	16.97	16.26	17.04	16.33	17.11

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

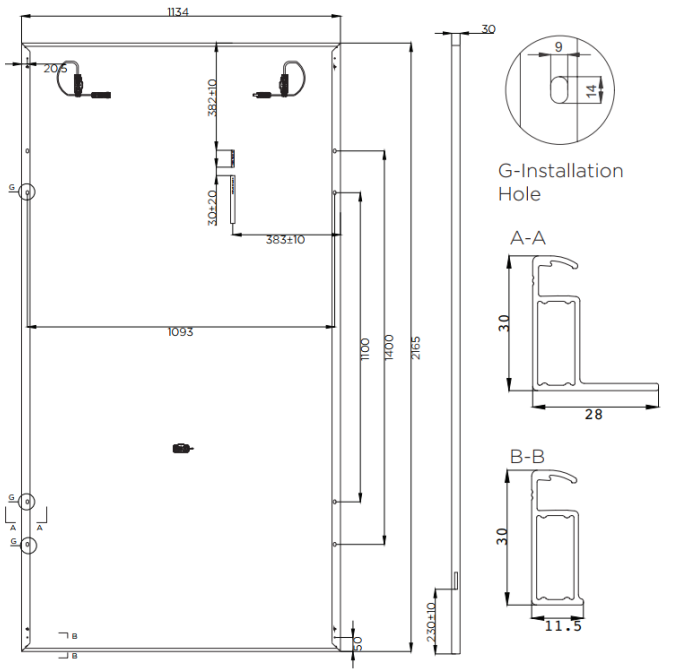
Mechanical Data

* Please refer to installation manual for details

No. of Cells	180 pcs (6×30)
Dimension	2165×1134×30 mm
Weight	29.6 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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