

TCL¹⁸²

TCL-MI555~575DH182-72NT

TOPCon Bifacial high efficiency PV module



EL TEJADO SOLAR .COM

CREAMOS LA ENERGIA VERDE

info@eltejadosolar.com

Tel: 965 055 969

Tel: 668 636 637



PRODUCT FEATURES



Hi Power Output

N-type MBB half cut technology, improve energy density, bring higher power output.
High Bifacial Factor, up to 25% extra power generation



High Durability

Passed TUV Salt & Ammonia corrosion test, and 2400Pa wind load, 5400Pa snow load test, higher reliability



Better Low Light Performance

Higher power generation compare with standard module in cloudy, foggy and low light condition



Low Power Degradation

First year power degradation <1.0%, year 2-30 power degradation <0.40% each year



Low Temperature coefficient

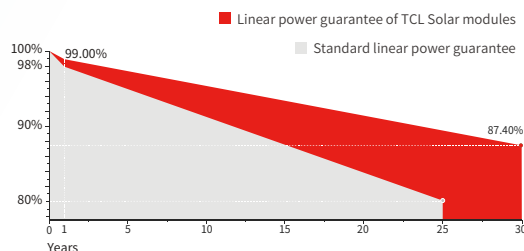
Passivated contact cell technology for higher power generation in operating



Better Anti-PID

N-type cells with boron-oxide-free composite LID to increase module power generation

LINEAR PERFORMANCE WARRANTY



15 years product warranty



0.40% Linear attenuation of 0.40% per year within 30 years



30 years linear power warranty

CERTIFICATES

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational health and safety management systems



Electrical Data (STC)

Maximum Power (Pmax/W)	555	560	565	570	575
Open Circuit Voltage (Voc/V)	50.73	50.88	51.03	51.18	51.33
Short Circuit Current (Isc/A)	13.68	13.76	13.84	13.92	14.00
Voltage at Maximum Power (Vmp/V)	42.00	42.15	42.30	42.45	42.60
Current at Maximum Power (Imp/A)	13.22	13.29	13.36	13.43	13.50
Module Efficiency (%)	21.48	21.68	21.87	22.07	22.26

Operating Temperature -40° C~+85° C

Maximum System Voltage 1000/1500V

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5



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Electrical Data (NMOT)

Maximum Power (Pmax/W)	418	422	426	430	434
Open Circuit Voltage (Voc/V)	48.16	48.31	48.46	48.61	48.76
Short Circuit Current (Isc/A)	11.19	11.26	11.33	11.40	11.47
Voltage at Maximum Power (Vmp/V)	39.53	39.68	39.83	39.98	40.13
Current at Maximum Power (Imp/A)	10.58	10.64	10.70	10.76	10.82

NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

Bifacial Power Generation Parameters (Backside Gains)

5%	Maximum Power (Pmax/W)	583	588	593	599	604
	Module Efficiency (%)	22.56	22.76	22.97	23.17	23.37
15%	Maximum Power (Pmax/W)	638	644	650	656	661
	Module Efficiency (%)	24.71	24.93	25.15	25.37	25.60
25%	Maximum Power (Pmax/W)	694	700	706	713	719
	Module Efficiency (%)	26.86	27.10	27.34	27.58	27.82

Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	144(6×24)
Module Dimensions	2278×1134×30mm
Weight	32.0kg
Glass	2.0mm high transmittance, reinforced glass
Backsheet	2.0mm part of the structure is grid-like white ceramic glass
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm ² positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 EVO2



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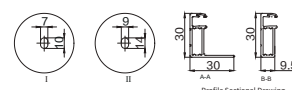
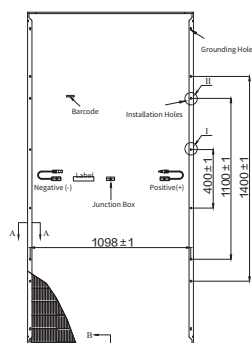
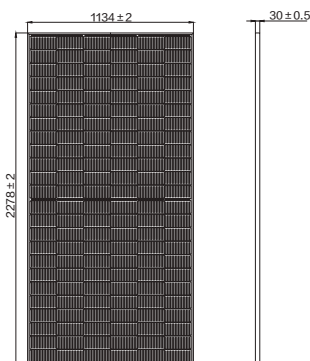
Temperature Coefficients

Temperature Coefficient (Pm)	-0.300%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.045%/°C
NMOT (Nominal Module Operating Temperature)	41±3°C

Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	720 pcs	36 pcs +36 pcs

Module Dimensions (mm)



I-V Curve

