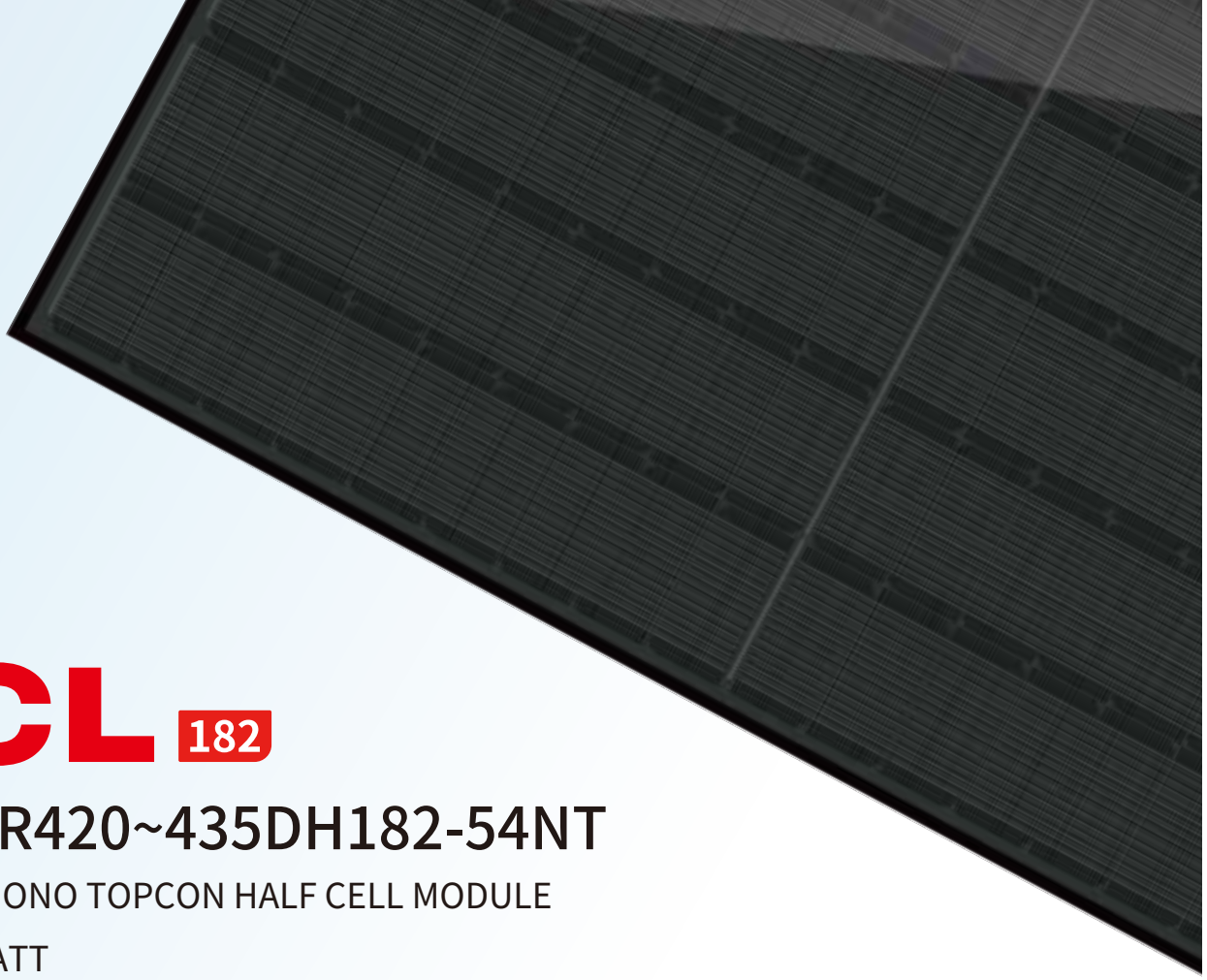


TCL 182

TCL-MR420~435DH182-54NT

BIFACIAL MONO TOPCON HALF CELL MODULE

420-435 WATT

PRODUCT FEATURES

HIGHER POWER DENSITY

· Output up to 435watt on 1.952M²
· Module efficiency high to 22.3%
· Gain more solar power per square meter

SEMI+SMBB

· Semi design deduce working temperature of operation and minimize hot-spot risk
· SMBB design deduce cover of busbars and improve current collection ability on windy days
· Improve the output/watt

ENHANCED MECHANICAL LOAD

· Wind load 2400 Pascal
· Snow load 5400 Pascal

APPLIED UNDER STRICT CONDITIONS

· Modules could be applied under ammonia, salt mist, high temperature, high humidity condition

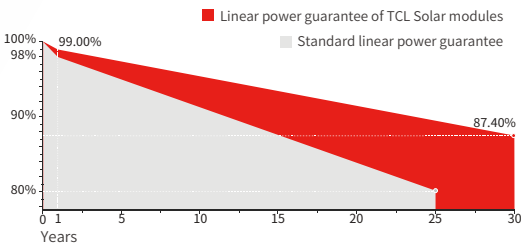
IP68

· IP68 junction boxes improve water-proof performance

EXCELLENT FIRE-PROOF PERFORMANCE

· Modules have passed anti-fire test

LINEAR PERFORMANCE WARRANTY



15 YEARS product warranty

0.40% Linear attenuation of 0.40% per year within30years

30 YEARS linear power warranty

CERTIFICATES

Electrical Data (STC)

Rated Power In Watts-Pmax (Wp)	420	425	430	435
Maximum Power Voltage-Vmpp (V)	31.84	32.05	32.26	32.47
Maximum Power Current-Impp (A)	13.19	13.26	13.33	13.40
Open Circuit Voltage-Voc (V)	38.04	38.23	38.42	38.61
Short Circuit Current-Isc (A)	14	14.08	14.16	14.24
Module Efficiency (%)	21.5%	21.8%	22.0%	22.3%

STC: Irradiation 1000 W/m², Cell Temperature 25—, Air Mass AM1.5 according to EN 60904-3.

Electrical Data (NMOT)

Maximum Power-Pmax (Wp)	318	322	326	330
Maximum Power Voltage-Vmpp (V)	29.95	30.11	30.24	30.39
Maximum Power Current-Impp (A)	10.62	10.7	10.78	10.86
Open Circuit Voltage-Voc (V)	36.2	36.38	36.56	36.74
Short Circuit Current-Isc (A)	11.21	11.27	11.33	11.39

NOCT: Irradiation: 800 W/m², ambient temperature: 20—, air mass: 1.5, wind speed 1 m/s

Electrical Characteristics With Different Rear Side Power Again (Reference To 435w Front0

Pmax gain (%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	457	479	500	522	544
Maximum Power Voltage (Vmpp/V)	32.47	32.47	32.47	32.47	32.47
Maximum Power Current (Impp/A)	14.07	14.74	15.41	16.08	16.75

Mechanical Characteristics

Solar Cells	Monocrystalline N-type, SMBB
Cell Configuration	108 cells (6 x 9 x 2)
Module Dimensions	1722 x 1134 x 30 mm
Weight	22.0 kg
Glass	1.6mmTempered ARC Glass
Back Sheet	1.6mmGlass, Black
Frame	Anodized Aluminium Alloy, Black
J-Box	IP68, 3 bypass diodes
Cables	4.0mm², (+) 380mm, (-) 380mm or customized length
Connector	MC4 EVO2

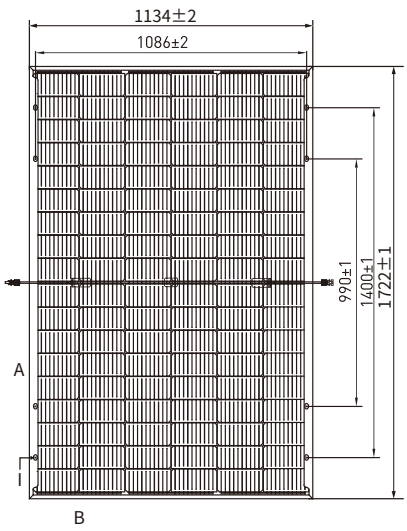
Temperature & Maximum Ratings

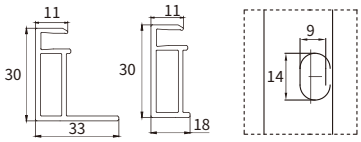
Nominal Module Operating Temperature (NMOT)	44±2℃
Temperature Coefficient of VOC	-0.25% / ℃
Temperature Coefficient of ISC	0.045% / ℃
Temperature Coefficient of PMAX	-0.30% / ℃
Operational Temperature	-40 ℃~+85℃
Maximum System Voltage	1500VDC
Max Series Fuse Rating	25A

Packaging Configuration

	40 FT (HQ)
Number of Modules Per Container	936
Number of Modules Per Pallet	36
Number of Pallets Per Container	26

Module Dimensions (mm)





I-V Curve