



ALPHA N-Type High-Efficiency Bifacial Module Specification - Bifacial glass-glass
Monocrystalline 6X24 Bifacial Solar Modules
560-600Wp



Electrical Data

Model	TS72-CMH-560 H6QT	TS72-CMH-565 H6QT	TS72-CMH-570 H6QT	TS72-CMH-575 H6QT	TS72-CMH-580 H6QT	TS72-CMH-585 H6QT	TS72-CMH-590 H6QT	TS72-CMH-595 H6QT	TS72-CMH-600 H6QT
Max. power at STC P _{max} W	560	565	570	575	580	585	590	595	600
Max. power voltage V _{mp} V	41.95	42.14	42.29	42.44	42.59	42.74	42.89	43.04	43.19
Max. power current I _{mp} A	13.35	13.41	13.48	13.55	13.62	13.69	13.76	13.83	13.9
Open circuit voltage V _{oc} V	50.67	50.87	51.07	51.27	51.47	51.67	51.87	52.07	52.27
Short circuit current I _{sc} A	14.13	14.19	14.25	14.31	14.37	14.43	14.49	14.55	14.61
Module Conversion Eff. %	21.6%	21.8%	22.0%	22.2%	22.4%	22.6%	22.8%	23.0%	23.2%

Electrical Data under Different Bifacial Gains
(Using TS72-CMH-600 H6QT as an Example)

Bifacial Gain	5%	10%	20%
Max. power at STC P _{max} W	630	660	720
Max. power voltage V _{mp} V	43.19	43.19	43.19
Max. power current I _{mp} A	14.60	15.29	16.68
Open circuit voltage V _{oc} V	52.27	52.27	52.27
Short circuit current I _{sc} A	15.34	16.07	17.53
Module Conversion Eff. %	24.3%	25.5%	27.8%

* Under Standard Test Condition (1,000W/m², 25°C, AM 1.5): Power Tolerance ±3%, Voc Tolerance ±3%, Isc Tolerance ±3%
 * Module Conversion Eff. (%) = [Max power at STC(w) / ((Solar Module Area(m²) × 1000 (w/m²))] × 100%
 * Backside Gain: The additional power gain obtained from the backside of the module relative to the frontside power under standard test conditions, which depends on the installation of the module (including structure, height, tilt angle, etc.) and ground reflectivity conditions.

General Data

Cell type	Monocrystalline N-Type solar cell
Cell per module	Mono-crystalline silicon N-Type solar cell (144pcs)
Front	2.0 mm, AR-coating, semi-tempered
Encapsulant Film	POE/EVA
Rear	2.0 mm, semi-tempered
Frame	6005 T6 Anodized aluminum
Junction Box	IP/68
Connector	EVO-2 Compatible
Cable	(+)300mm, (-) 200mm or customized length / 4mm ²

Operation Conditions

Max. system voltage	1500V
Module fire resistance class	Class C
Protection Class (IEC 61140)	Class II
Series fuse rating	30 A
Number of bypass diodes	3
Temperature range	-40 to +85°C
Max. mechanical load	5400 Pa

* Please follow installation manual provided by TSEC

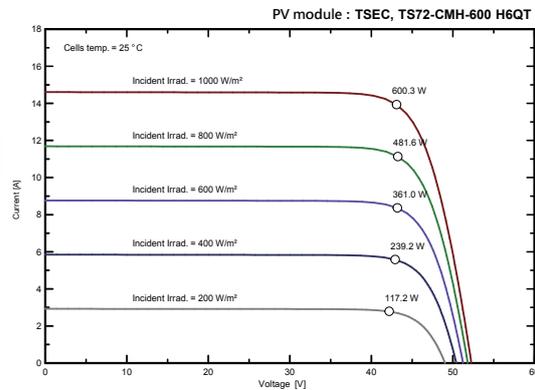
Module Dimensions and Weight

Dimension	2278 x 1134 x 30 mm
Weight(2.0+2.0mm glass)	32.6 kg

Temperature Coefficient

Nominal Operating Cell Temperature NOCT °C	45±2
TC Isc α %/°C	0.045
TC Voc β %/°C	- 0.25
TC Pmax γ %/°C	- 0.29

IV Curve

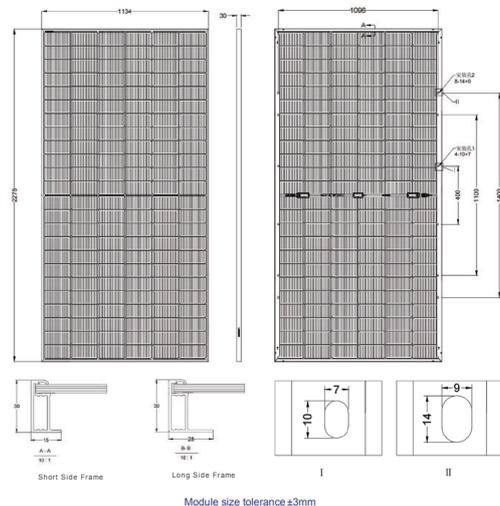


Certifications

- IEC 61215:2021、IEC 61730-1:2023 & IEC 61730-2:2023
- ISO 9001:2015 Quality management system
- ISO 14001:2015 Environmental management system
- ISO 45001:2018 Occupational health and safety management system

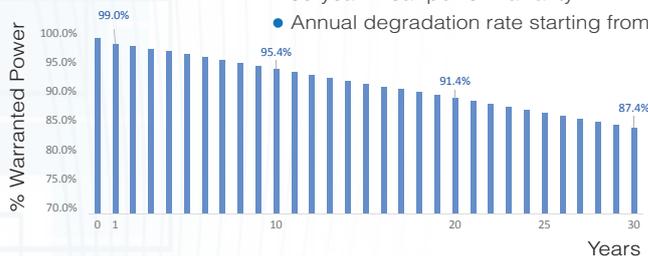


Engineering Drawing(mm)



Warranty

- 15-year materials and workmanship warranty
- 30-year linear power warranty
- Annual degradation rate starting from the second year : 0.4%



TSEC Corporation

Taipei Headquarters | 8F., No.225, Sec3, Beixin Rd., Xindian Dist., New Taipei City 23143, Taiwan, R.O.C

T +886-2-2912-2199 F +886-2-2917-5399 M international.sales@tsecpv.com(Sales Contact) epv@tsecpv.com(EPC Construction Service)

* The information in this document is subject to change without notice
 * TSEC reserves the rights of final interpretation and revision of datasheet
 * Version : Rev.4, March 2026