



ALPHA TOPCon T Type Bifacial Module Specification - Transparent Backsheet

Monocrystalline 6X24 Bifacial Solar Modules (182mm Solar Cell)

570-605Wp



Electrical Data

Model	TS72-CMH-570 H2				TS72-CMH-575 H2				TS72-CMH-580 H2				TS72-CMH-585 H2				TS72-CMH-590 H2				TS72-CMH-595 H2				TS72-CMH-600 H2				TS72-CMH-605 H2					
	Front	Bifacial Gain			Front	Bifacial Gain			Front	Bifacial Gain			Front	Bifacial Gain			Front	Bifacial Gain			Front	Bifacial Gain			Front	Bifacial Gain			Front	Bifacial Gain				
		5%	10%	20%		5%	10%	20%		5%	10%	20%		5%	10%	20%		5%	10%	20%		5%	10%	20%		5%	10%	20%		5%	10%	20%	5%	10%
Max. power at STC	P _{max}	W	570	599	627	684	575	604	633	690	580	609	638	696	585	614	644	702	590	620	649	708	595	625	655	714	600	630	660	720	605	635	666	726
Max. power voltage	V _{mp}	V	43.76	43.76	43.76	43.76	43.94	43.94	43.94	43.94	44.13	44.13	44.13	44.31	44.31	44.31	44.31	44.49	44.49	44.49	44.49	44.66	44.66	44.66	44.66	44.85	44.85	44.85	44.85	45.02	45.02	45.02	45.28	
Max. power current	I _{mp}	A	13.03	13.68	14.33	15.64	13.09	13.74	14.40	15.71	13.15	13.81	14.47	15.78	13.21	13.87	14.53	15.85	13.27	13.93	14.60	15.92	13.33	14.00	14.66	16.00	13.39	14.06	14.73	16.07	13.45	14.12	14.80	16.14
Open circuit voltage	V _{oc}	V	51.08	51.08	51.08	51.08	51.28	51.28	51.28	51.48	51.48	51.48	51.48	51.68	51.68	51.68	51.68	51.88	51.88	51.88	51.88	52.08	52.08	52.08	52.08	52.28	52.28	52.28	52.28	52.48	52.48	52.48	52.68	
Short circuit current	I _{sc}	A	13.73	14.42	15.10	16.48	13.79	14.48	15.17	16.55	13.85	14.54	15.24	16.62	13.91	14.61	15.30	16.69	13.97	14.67	15.37	16.76	14.03	14.73	15.43	16.84	14.09	14.79	15.50	16.91	14.15	14.86	15.57	16.98
Module Conversion Eff.	%		22.6%	23.7%	24.8%	27.1%	22.8%	23.9%	25.0%	27.3%	23.0%	24.1%	25.3%	27.5%	23.2%	24.3%	25.5%	27.8%	23.4%	24.5%	25.7%	28.0%	23.6%	24.7%	25.9%	28.3%	23.7%	24.9%	26.1%	28.5%	23.9%	25.1%	26.3%	28.7%

- * 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)) x 1000 (w/m²))] x 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 TOPCon solar cell
Cell per module	Mono-crystalline silicon TOPCon solar cell (144pcs)
Front	PV Coated glass
Encapsulant Film	Low water vapor transmission rate (WVTR) material
Rear	Backsheet
Frame	Anti-Salt Mist frame
Junction Box	IP68



Connector	EVO-2 Compatible
Cable	1500mm / 12 AWG / 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	

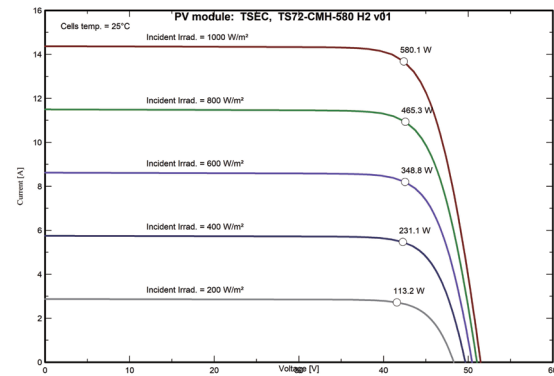
Module Dimensions and Weight

Dimension	2278 x 1134 x 35mm
Weight	27.5 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

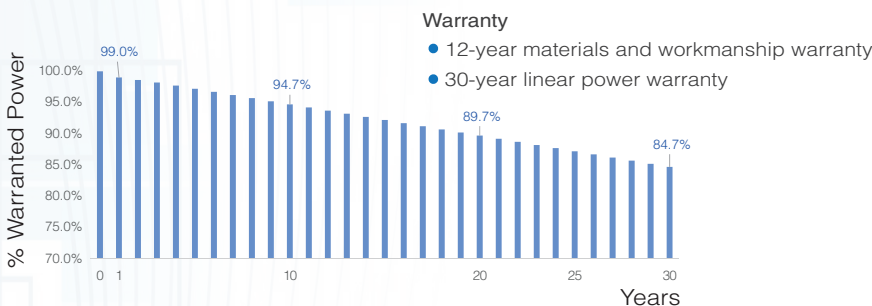
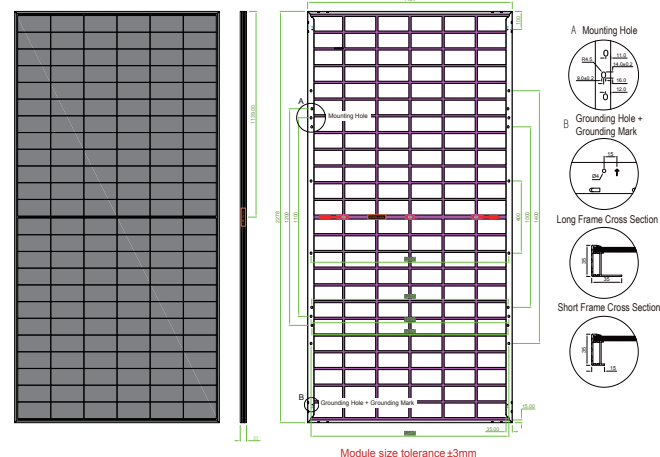


Certifications

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



Engineering Drawing(mm)



Made in Taiwan

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