



ALPHA TOPCon Module Specification

Monocrystalline 6X24 Solar Modules

182mm Solar Cell

570Wp~605Wp



Zero light-induced degradation



Better low light response



Additional power gain



The highest Mechanical Load Test in PV Industry



Better temperature coefficient



Lower LCOE



The toughest Salt Mist Test in PV Industry

Green Energy

Made in Taiwan



Sustainable Development



ALPHA TOPCon Module Specification(182mm Solar Cell)

Monocrystalline 6X24 Solar Modules

570-605Wp



Electrical Data										General Data		
Model Name		TS72-CMH-570 H1	TS72-CMH-575 H1	TS72-CMH-580 H1	TS72-CMH-585 H1	TS72-CMH-590 H1	TS72-CMH-595 H1	TS72-CMH-600 H1	TS72-CMH-605 H1		Cell type	Monocrystalline TOPCon solar cell
Max. power at STC	P _{max} W	570	575	580	585	590	595	600	605		Cell per module	Mono-crystalline silicon TOPCon solar cell (144 pcs)
Max. power voltage	V _{mp} V	43.76	43.94	44.13	44.31	44.49	44.66	44.85	45.02		Front	PV Coated glass
Max. power current	I _{mp} A	13.03	13.09	13.15	13.21	13.27	13.33	13.39	13.45		Encapsulant Film	Low water vapor transmission rate (WVTR) material
Open circuit voltage	V _{oc} V	51.08	51.28	51.48	51.68	51.88	52.08	52.28	52.48		Rear	Backsheet
Short circuit current	I _{sc} A	13.73	13.79	13.85	13.91	13.97	14.03	14.09	14.15		Frame	Anti-Salt Mist frame
Module Conversion Eff.	%	22.1%	22.3%	22.5%	22.6%	22.8%	23.0%	23.2%	23.4%		Junction Box	IP68 
											Connector	EVO-2 Compatible
											Cable	1500mm / 12 AWG / 4mm ²

* Under Standard Test Condition(1,000W/m²,25°C,AM 1.5): Power Tolerance ±3%
 * Module Conversion Eff. (%) = [Max power at STC(w) / ((Solar Module Area(m²) x 1000 (w/m²))] x 100%
 * Product specifications and data are subject to change without prior notice.

Temperature Coefficient

Nominal Operating	NOCT	°C	45±2
Cell Temperature			
TC I _{sc}	α	%/°C	+0.045
TC V _{oc}	β	%/°C	-0.25
TC P _{max}	γ	%/°C	-0.29

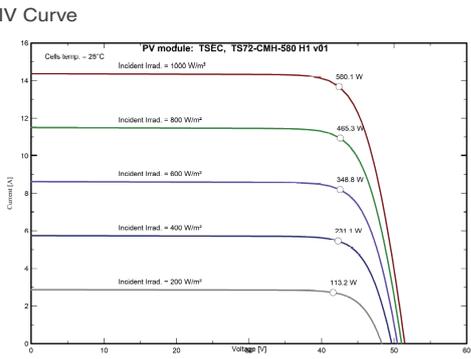
Operation Conditions

Max. system voltage	1500V
Module fire resistance class	Class C
Protection Class (IEC 61140)	Class II
Series fuse rating	25 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

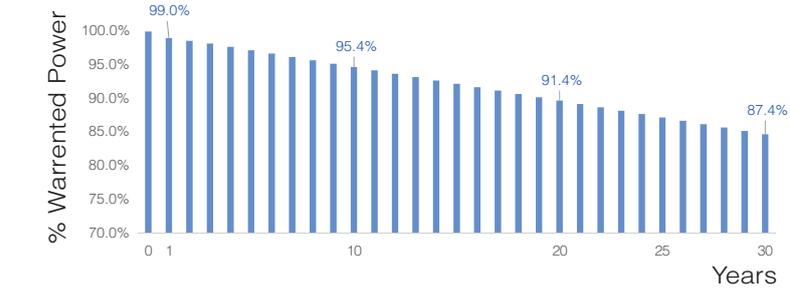
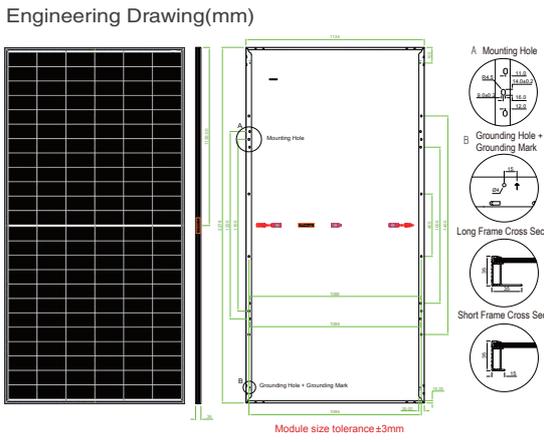
Dimension	2278 x 1134 x 35 mm
Weight	27.5 Kg



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



★ Certification is in progress



- ### Warranty
- 12-year materials and workmanship warranty
 - 30-year linear power warranty

★ The temporary data sheet is still under development.

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