



QUANTUM TOPCon Module Specification

Monocrystalline 6X22 Solar Modules

182mm Solar Cell

525Wp~550Wp



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



QUANTUM TOPCon Module Specification(182mm Solar Cell)

Monocrystalline 6X22 Solar Modules

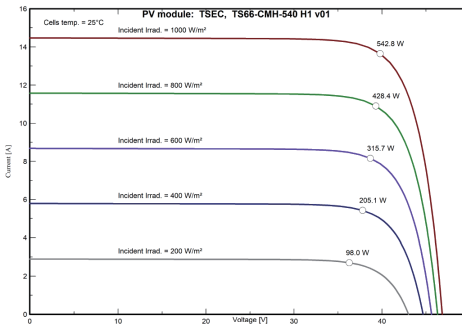
525-550Wp



Electrical Data								General Data		
Model Name			TS66-CMH-525 H1	TS66-CMH-530 H1	TS66-CMH-535 H1	TS66-CMH-540 H1	TS66-CMH-545 H1	TS66-CMH-550 H1	Cell type	Monocrystalline TOPCon solar cell
Max. power at STC	Pmax	W	525	530	535	540	545	550	Cell per module	Mono-crystalline silicon TOPCon solar cell (132 pcs)
Max. power voltage	Vmp	V	40.25	40.43	40.52	40.64	40.78	40.92	Front	PV Coated glass
Max. power current	Imp	A	13.05	13.13	13.21	13.29	13.37	13.45	Encapsulant Film	Low water vapor transmission rate (WVTR) material
Open circuit voltage	Voc	V	46.78	46.97	47.16	47.35	47.54	47.73	Rear	Backsheet (Inner side foil black)
Short circuit current	Isc	A	13.74	13.83	13.92	14.01	14.1	14.19	Frame	Anodized aluminum black
Module Conversion Eff.	%		22.1%	22.3%	22.5%	22.8%	23.0%	23.2%	Junction Box	IP68
										
									Connector	EVO-2 Compatible
									Cable	1500mm / 12 AWG / 4mm²
* 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%										

Temperature Coefficient				Operation Conditions		Module Dimensions and Weight	
Nominal Operating	NOCT	°C	45±2	Max. system voltage	1500V	Dimension	2093 x 1134 x 35 mm
Cell Temperature				Module fire resistance class	Class C		
TC Isc	α	%/ °C	0.045	Protection Class (IEC 61140)	Class II	Weight	25.5 Kg
TC Voc	β	%/ °C	- 0.25	Series fuse rating	30 A		
TC Pmax	γ	%/ °C	- 0.29	Number of bypass diodes	3		
				Temperature range	-40 to +85°C		
				Max. mechanical load	5400 pa		
				* Please follow installation manual provided by TSEC			

IV Curve



Certifications

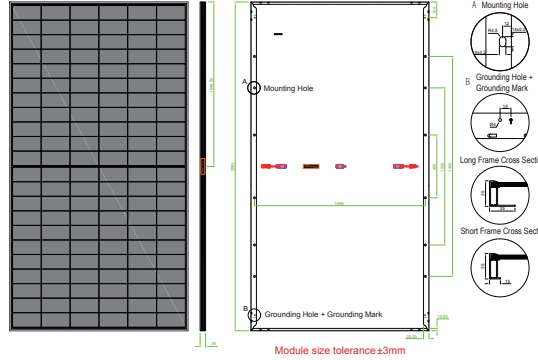
- IEC 61215:2021、IEC 61730-1:2021 & IEC 61730-2:2021、UL 61730
- ISO 9001:2015 Quality management system
- ISO 14001:2015 Environmental management system
- ISO 45001:2018 Occupational health and safety management system



Management System
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
www.tuv.com
ID 9105065471



Engineering Drawing(mm)



Warranty

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

% Warranted Power

