



ALPHA TOPCon Module Specification

Monocrystalline 6X18 Solar Modules

182mm Solar Cell

425Wp~455Wp



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



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425-455Wp



Electrical Data										General Data	
Model Name			TS54-CMH-425 H1	TS54-CMH-430 H1	TS54-CMH-435 H1	TS54-CMH-440 H1	TS54-CMH-445 H1	TS54-CMH-450 H1	TS54-CMH-455 H1	Cell type	Monocrystalline TOPCon solar cell
Max. power at STC	Pmax	W	425	430	435	440	445	450	455	Cell per module	Mono-crystalline silicon TOPCon solar cell (108 pcs)
Max. power voltage	Vmp	V	33.01	33.16	33.35	33.52	33.71	33.89	34.04	Front	PV Coated glass
Max. power current	Imp	A	12.90	12.98	13.06	13.14	13.22	13.30	13.38	Encapsulant Film	Low water vapor transmission rate (WVTR) material
Open circuit voltage	Voc	V	38.87	39.06	39.25	39.44	39.63	39.82	40.01	Rear	Backsheet (Inner side foil black)
Short circuit current	Isc	A	13.48	13.57	13.66	13.75	13.84	13.93	14.02	Frame	Composites material frame
Module Conversion Eff.		%	21.8%	22.0%	22.3%	22.5%	22.8%	23.0%	23.3%	Junction Box	IP68
											
* 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%											