

SkyHawk T-type Module Specification

Monocrystalline 6X24 Bifacial Solar Modules (166mm / M6 Solar Cell)

435-455Wp



Electrical Data

Model			TS72-AMH-435 H2			TS72-AMH-440 H2			TS72-AMH-445 H2			TS72-AMH-450 H2			TS72-AMH-455 H2					
			Front			Bifacial Gain			Front			Bifacial Gain			Front			Bifacial Gain		
				5%	10%		5%	10%		5%	10%		5%	10%		5%	10%		5%	10%
Max. power at STC	P _{max}	W	435	457	479	440	462	484	445	467	490	450	473	495	455	478	501			
Max. power voltage	V _{mp}	V	40.8	40.80	40.80	41.0	41.00	41.00	41.2	41.20	41.20	41.4	41.40	41.40	41.6	41.60	41.60			
Max. power current	I _{mp}	A	10.66	11.19	11.73	10.73	11.27	11.80	10.80	11.34	11.88	10.87	11.41	11.96	10.94	11.49	12.03			
Open circuit voltage	V _{oc}	V	49.10	49.10	49.10	49.20	49.20	49.20	49.40	49.40	49.40	49.60	49.60	49.60	49.80	49.80	49.80			
Short circuit current	I _{sc}	A	11.36	11.93	12.50	11.45	12.02	12.60	11.52	12.10	12.67	11.58	12.16	12.74	11.65	12.23	12.82			
Module Conversion Eff.		%	20.0%	21.0%	22.0%	20.2%	21.3%	22.3%	20.5%	21.5%	22.5%	20.7%	21.7%	22.8%	20.9%	22.0%	23.0%			

* 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%

General Data

Cell type	M6 Monocrystalline
Cell per module	Mono-crystalline silicon solar cell (144pcs)
Front	Low-iron tempered glass
Encapsulant Film	Low water vapor transmission rate (WVTR) material
Rear	Anti-Salt Mist composite film
Frame	6063T5 Anodized aluminum (silver/black)
Junction Box	IP68
Connector	EVO-2 Compatible
Cable	1400mm / 4mm ²



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

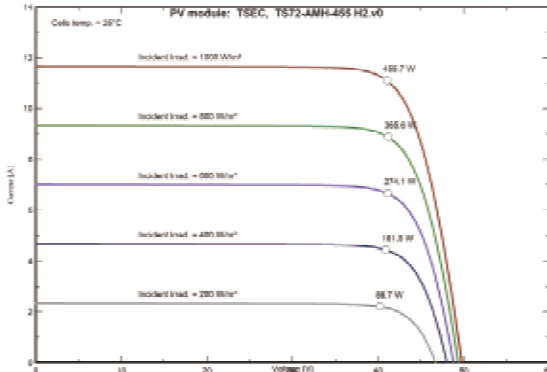
Temperature Coefficient

Nominal Operating Cell Temperature	NOCT	°C	45±2
TC I _{sc}	α	%/°C	0.06
TC V _{oc}	β	%/°C	- 0.30
TC P _{max}	γ	%/°C	- 0.38

Module Dimensions and Weight

Dimension	2094x1038x40mm
Weight	23.5 Kgs

IV Curve

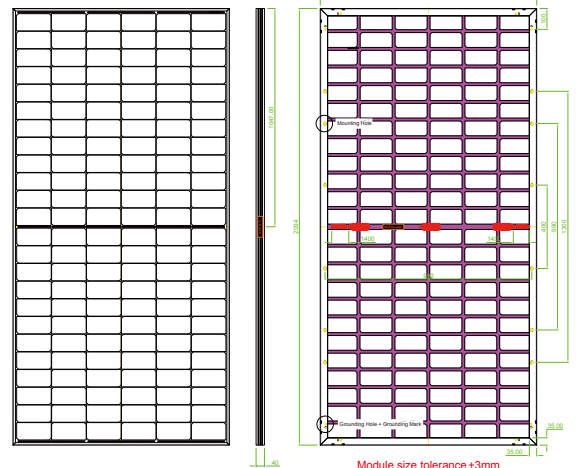
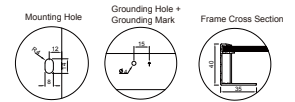


Certifications

- IEC 61215:2016、IEC 61730-1:2016 & IEC 61730-2:2016
- ISO 9001:2015 Quality management system
- ISO 14001:2015 Environmental management system
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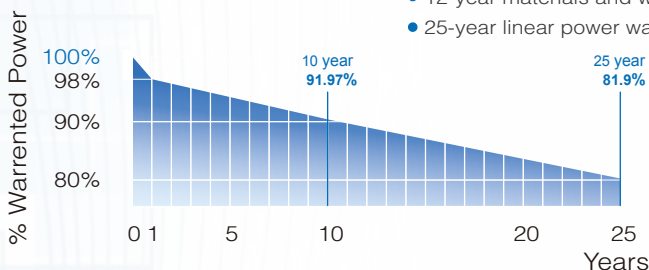


Engineering Drawing(mm)



Warranty

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



Made in Taiwan

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TSEC Corporation

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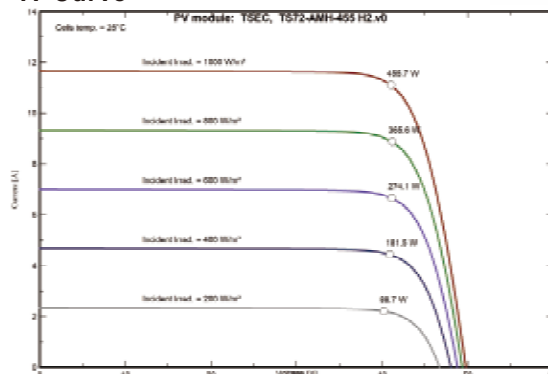
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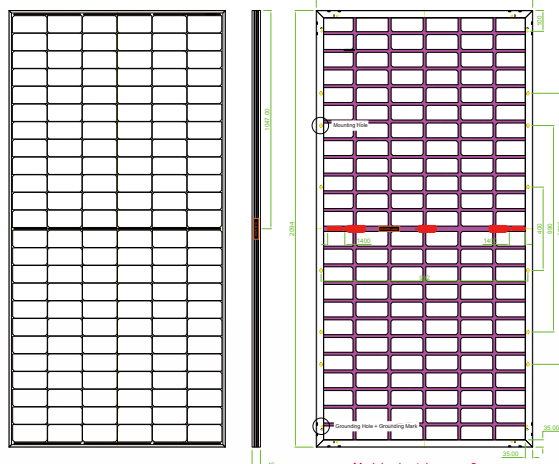


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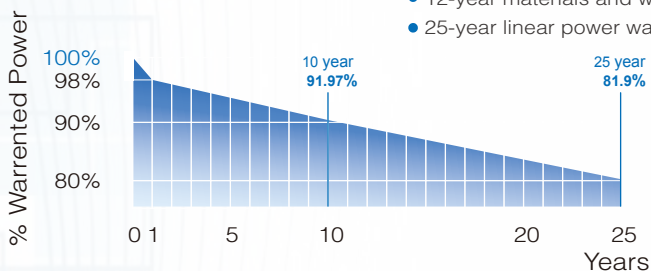


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