SkyHawk T-type Module Specification

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

435-455Wp

SkyHawk T Type

Electrial 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		Front	Bifacial Gain		Front	Bifacial Gain	
				5%	10%		5%	10%		5%	10%		5%	10%		5%	10%
Max. power at STC	Pmax	W	435	457	479	440	462	484	445	467	490	450	473	495	455	478	501
Max. power voltage	Vmp	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	Imp	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	Voc	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	Isc	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%, Voc Tolerance ±3%, Isc 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 Flim	Low water vapor transmission rate (WVTR) material
Rear	Anti-Salt Mist composite film
Frame	Anti-Salt Mist 6063T5 aluminum (silver / black)
Junction Box	IP68
Connector	EVO-2 Compatible
Cable	1400mm / 4mm²

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

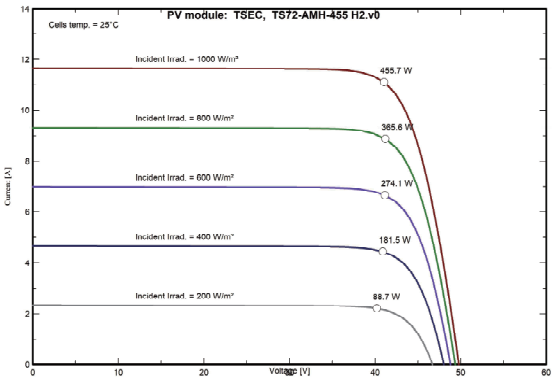
Module Dimensions and Weight

Dimension	2094x1038x40mm
Weight	23.5 Kgs

Temperature Coefficient

Nominal Operating Cell Temperature	NOCT	°C	45±2
TC Isc	α	%/ °C	0.06
TC Voc	β	%/ °C	- 0.30
TC Pmax	γ	%/ °C	- 0.38

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
- ISO 45001:2018 Occupational health and safety management system

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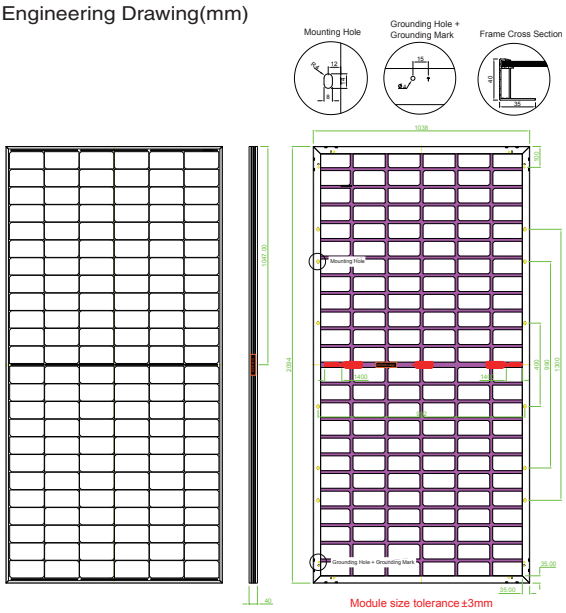
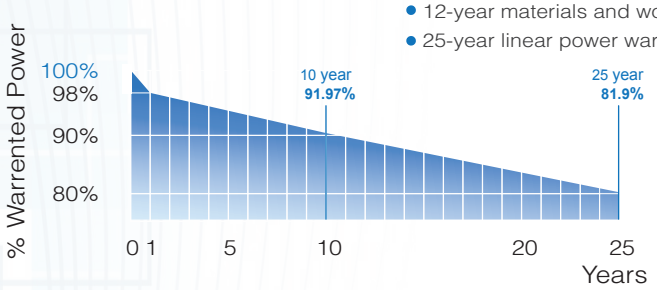
CE

Engineering Drawing(mm)



Warranty

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



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