

## SkyHawk M-type Module Specification

Monocrystalline 6X18 Solar Modules for Salt Field Type

182mm / M10 Solar Cell

# 405Wp / 410Wp



The highest Mechanical Load Test in PV Industry



Better LCOE



Improved module power output performance by reducing module working temperature



Advanced Non-Destructive Cutting Technology



World's best PID resistant



Multi Busbar Technology



The toughest Salt Mist Test in PV Industry

Green Energy

Made in Taiwan



Sustainable Development



# SkyHawk M-type Module Specification(182mm / M10 Solar Cell) Monocrystalline 6X18 Solar Modules for Salt Field Type 390-420Wp



## Electrical Data

Model Name		TS54-BMH-390 H1	TS54-BMH-395 H1	TS54-BMH-400 H1	TS54-BMH-405 H1	TS54-BMH-410 H1	TS54-BMH-415 H1	TS54-BMH-420 H1	
Max. power at STC	Pmax	W	390	395	400	405	410	415	420
Max. power voltage	Vmp	V	30.22	30.32	30.42	30.52	30.62	30.72	30.82
Max. power current	Imp	A	12.91	13.03	13.15	13.27	13.39	13.51	13.63
Open circuit voltage	Voc	V	36.82	36.90	36.98	37.06	37.14	37.22	37.3
Short circuit current	Isc	A	13.64	13.71	13.78	13.85	13.92	13.99	14.06
Module Conversion Eff.	%		20.0%	20.2%	20.5%	20.8%	21.0%	21.3%	21.5%

\* Under Standard Test Condition(1,000W/m<sup>2</sup>,25°C,AM 1.5): Power Tolerance ±3%  
\* Module Conversion Eff. (%) = [Max power at STC(w) / ((Solar Module Area(m<sup>2</sup>) x 1000 (w/m<sup>2</sup>))] x 100%

## Temperature Coefficient

Nominal Operating	NOCT	°C	45±2
Cell Temperature			
TC Isc	α	%/°C	+0.06
TC Voc	β	%/°C	-0.27
TC Pmax	γ	%/°C	-0.35

## Operation Conditions

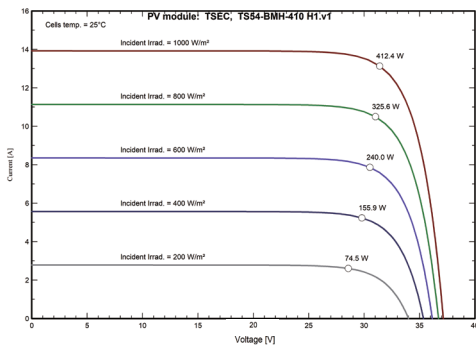
Max. system voltage	1500V
Module fire resistance class	Class C
Protection Class (IEC 61140)	Class II
Series fuse rating	25 A
Number of bypass diodes	3
Temperature range	-40 to +85°C
Max. mechanical load	7100 pa(front side) 5400 Pa(rear side)

\* Please follow installation manual provided by TSEC

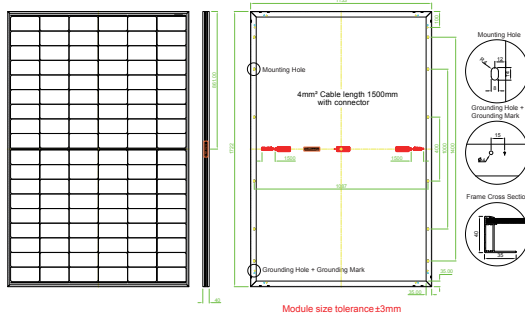
## General Data

Cell type	M10 Monocrystalline
Cell per module	Mono-crystalline silicon solar cell (108 pcs)
Front	Low-iron tempered glass
Encapsulant Flim	Low water vapor transmission rate (WVTR) material
Rear	Anti-Salt Mist composite film
Frame	Anti-Salt Mist aluminum (silver/black)
Junction Box	IP68
Connector	EVO-2 Compatible
Cable	1500mm / 4mm <sup>2</sup>

## IV Curve

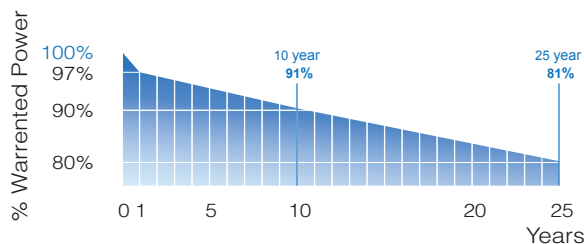


## Engineering Drawing(mm)



## 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



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

Made in Taiwan

\* The information in this document is subject to change without notice \* TSEC reserves the rights of final interpretation and revision of datasheet \* Version : Rev.5, September 2023

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