

SkyHawk M-type Module Specification

Monocrystalline 6X22 Solar Modules for Salt Field Type

182mm / M10 Solar Cell

480~505Wp



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 6X22 Solar Modules for Salt Field Type 480-505Wp



Electrial Data		TS66-BMH-480 H1	TS66-BMH-485 H1	TS66-BMH-490 H1	TS66-BMH-495 H1	TS66-BMH-500 H1	TS66-BMH-505 H1
Model Name		TS66-BMH-480 H1	TS66-BMH-485 H1	TS66-BMH-490 H1	TS66-BMH-495 H1	TS66-BMH-500 H1	TS66-BMH-505 H1
Max. power at STC	P _{max} W	480	485	490	495	500	505
Max. power voltage	V _{mp} V	37.78	37.93	38.08	38.23	38.38	38.53
Max. power current	I _{mp} A	12.71	12.79	12.87	12.95	13.03	13.11
Open circuit voltage	V _{oc} V	44.95	45.10	45.25	45.40	45.55	45.70
Short circuit current	I _{sc} A	13.59	13.67	13.74	13.82	13.90	13.97
Module Conversion Eff.	%	20.3%	20.5%	20.7%	20.9%	21.1%	21.3%

* 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%

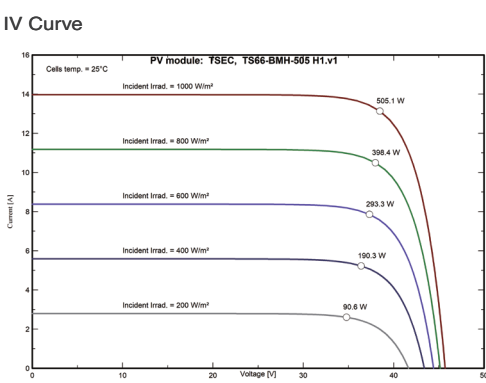
General Data	
Cell type	M10 Monocrystalline
Cell per module	Mono-crystalline silicon solar cell (132 pcs)
Front	Low-iron tempered glass
Encapsulant Film	Low water vapor transmission rate (WVTR) material
Rear	Anti-Salt Mist composite film
Frame	Anti-Salt Mist aluminum (silver/black)
Junction Box	IP68
Connector	EVO-2 Compatible
Cable	1500mm / 4mm ²

Temperature Coefficient			
Nominal Operating	NOCT	°C	45±2
Cell Temperature			
TC I _{sc}	α	%/°C	+0.06
TC V _{oc}	β	%/°C	-0.27
TC P _{max}	γ	%/°C	-0.35

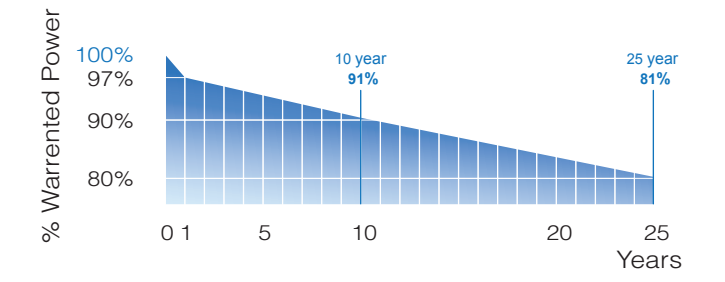
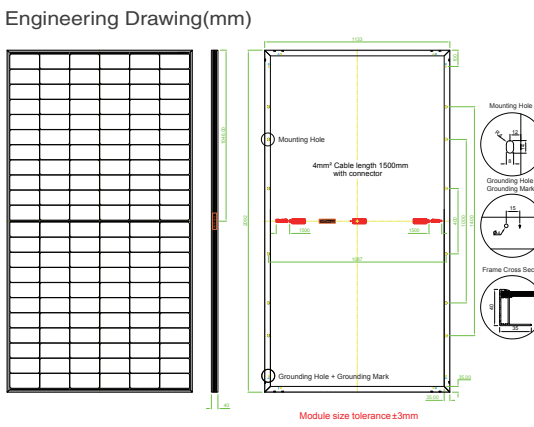
Operation Conditions	
Max. system voltage	1500V
Module fire resistance class	Class C
Protection Class (IEC 61140)	Class II
Series fuse rating	25 A
Number of bypass diodes	3
Temperature range	-40 to +85°C
Max. mechanical load	7100 pa(front side) 5400 Pa(rear side)

* Please follow installation manual provided by TSEC

Module Dimensions and Weight	
Dimension	2092 x 1133 x 40 mm
Weight	26 Kg



- ### 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: Fourth edition, April 2023.

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