Aegis R-type Module Specification

Monocrystalline 6X12 Solar Modules for Rooftop Type

380-405Wp

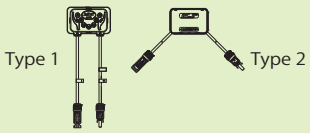
Electrial Data

Model Name			TS72-6M3-380 H1	TS72-6M3-385 H1	TS72-6M3-390 H1	TS72-6M3-395 H1	TS72-6M3-400 H1	TS72-6M3-405 H1
Max. power at STC	Pmax	W	380	385	390	395	400	405
Max. power voltage	Vpmax	V	38.98	39.11	39.32	39.51	39.79	40.05
Max. power current	Ipmax	A	9.79	9.86	9.94	10.02	10.09	10.13
Open circuit voltage	Voc	V	48.29	48.32	48.36	48.39	48.42	48.45
Short circuit current	Isc	A	10.25	10.34	10.46	10.55	10.65	10.75
Module Conversion Eff.		%	19.04%	19.29%	19.54%	19.79%	20.04%	20.29%

* 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(㎡) x 1000 (w/㎡))] x 100%

General Data

Cell type	6" Monocrystalline
Cell per module	Mono-crystalline silicon solar cell
Front	Low-iron tempered glass
Encapsulant Flim	Ethylene Vinyl Acetate(EVA)
Rear	Composite film
Frame	Anti-Salt Mist 6063T5 aluminum (silver / black)
Junction Box	IP68
Connector	EVO-2 / EVO-2 Compatible
Cable	1200mm / 12 AWG / 4mm²



Operation Conditions

Max. system voltage	1500V
Module fire resistance class	Class C
Protection Class (IEC 61140)	Class II
Series fuse rating	15 A
Number of bypass diodes	3
Temperature range	-40 to +85°C
Max. mechanical load	5400 pa(front side) 3600 Pa(rear side)

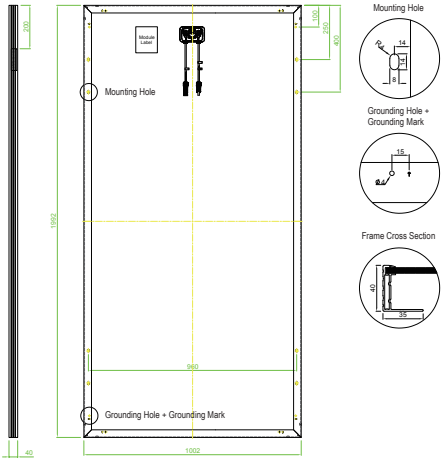
Temperature Coefficient

Nominal Operating Cell Temperature	NOCT	°C	43±2
TC Isc	α	%/ °C	+0.07
TC Voc	β	%/ °C	- 0.28
TC Pmax	γ	%/ °C	- 0.37

Module Dimensions and Weight

Dimension	1,992 x 1002 x 40 mm
Weight	22.5 Kg

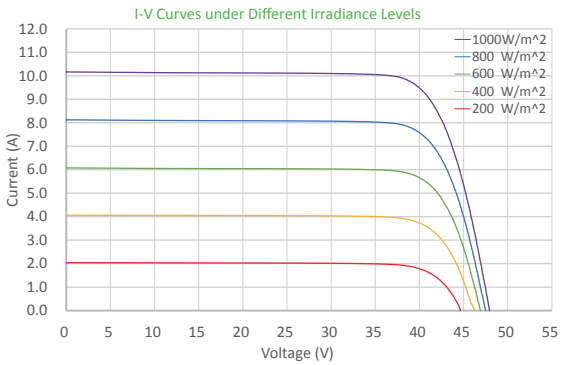
Engineering Drawing(mm)

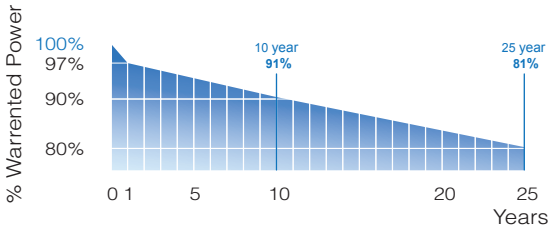


Certifications

- 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

IV Curve





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 : March 2022

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