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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**TSEC Corporation  
TS60-6M3-305-325V(5BB)  
TS60-6M3-320V**

Also available on the web at  
[EnergyPal.com/tsec-corporation-solar-panels/ts60-6m3-320v](http://EnergyPal.com/tsec-corporation-solar-panels/ts60-6m3-320v)

# Aegis R-type Module Specification

## Monocrystalline 6X10 Solar Modules for Rooftop Type

### 300-325Wp



Performance Under Standard Test Conditions		TS60-6M3-300 H	TS60-6M3-305 H	TS60-6M3-310 H	TS60-6M3-315 H	TS60-6M3-320 H	TS60-6M3-325 H
Model Name		TS60-6M3-300 H	TS60-6M3-305 H	TS60-6M3-310 H	TS60-6M3-315 H	TS60-6M3-320 H	TS60-6M3-325 H
Max. power at STC	$P_{max}$ W	300	305	310	315	320	325
Max. power voltage	$V_{mp}$ V	32.16	32.56	32.87	33.34	33.76	34.11
Max. power current	$I_{mp}$ A	9.33	9.37	9.43	9.45	9.48	9.53
Open circuit voltage	$V_{oc}$ V	39.77	39.92	39.95	39.98	40.11	40.30
Short circuit current	$I_{sc}$ A	10.10	10.12	10.16	10.20	10.29	10.35
Module Conversion Eff.	%	18.3%	18.6%	18.9%	19.2%	19.6%	19.9%

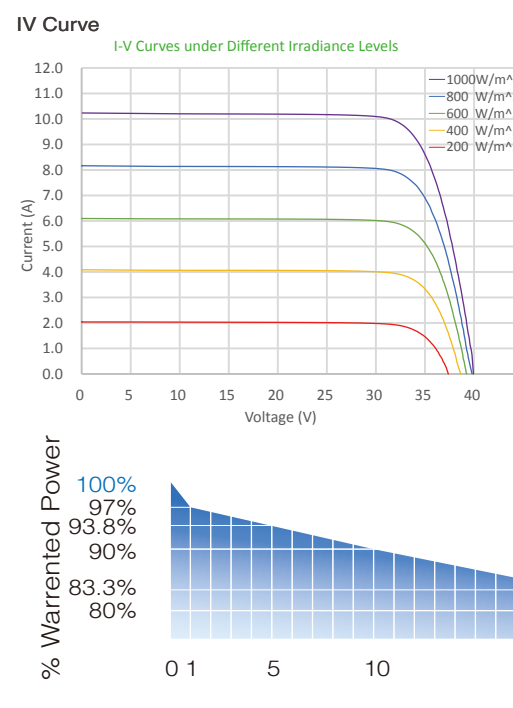
\* Under Standard Test Condition(1,000W/m<sup>2</sup>,25°C,AM 1.5): Power Tolerance ±3%  
 \* Module Conversion Eff. (%) = [Max power at STC(w) / ((Solar Module Area(m<sup>2</sup>) x 1000 (w/m<sup>2</sup>))] x 100%

Component Material	
Cell type	6" Monocrystalline
Cell per module	Mono-crystalline silicon solar cell
Front	Low-iron glass / Tempered
Encapsulant Film	Ethylene Vinyl Acetate(EVA)
Rear	PET
Frame	6063T5 Anodized aluminum
Junction Box	IP68
Connector	MC4 Compatible
Cable	1000mm / 12 AWG / 4mm <sup>2</sup>

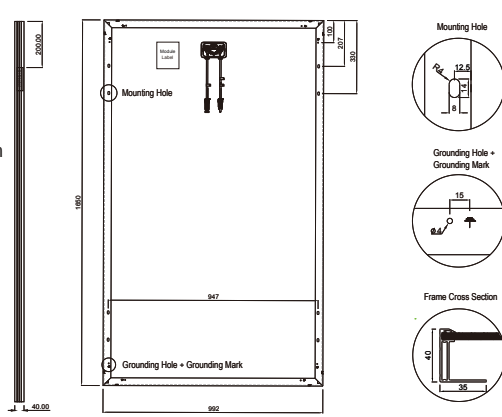
Thermal Characteristics			
Nominal Operating	NOCT	°C	43±2
Cell Temperature			
TC Isc	$\alpha$	%/ °C	+0.07
TC Voc	$\beta$	%/ °C	- 0.28
TC Pmax	$\delta$	%/ °C	- 0.37

System Integration Parameters	
Max. system voltage	1500V
Module Fire Performance	Type 4 (UL 1703)
Safety Class	Class II (IEC 61140)
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)

Module Characteristics	
Dimension	1,650 x 992 x 40 mm
Weight	18.5 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 50001:2011 Energy management system
  - OHSAS18001:2007 Occupational health and safety management system



- #### Warranty
- 10-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 2019.