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Solar Panel Guide Specification Data Sheet

**TSEC Corporation
TS72-6M3-350-365(4BB)
TS72-6M3-365**

Also available on the web at
EnergyPal.com/tsec-corporation-solar-panels/ts72-6m3-365



V-Series Modules

4BB Monocrystalline Solar Modules

Peak Power:350-365Wp

High Quality

- Powered by TSEC premium grade solar cells.
- PID free by adopting TSEC PID free solar cells plus PID resistant materials.

High Reliability

- Snow and wind pressure(Mechanical loading) up to 5,400 pa
- PID resistance up to 1000hrs by TÜV Rheinland.
- Salt mist corrosion testing up to 56 days by ITRI, follow severity 6 in IEC 60068-2-52 standard.

Strict Quality Control

- Current sorting for hot spot protection.
- 3-stage EL tests at pre-lamination, before framing and before delivery.

Module Characteristics

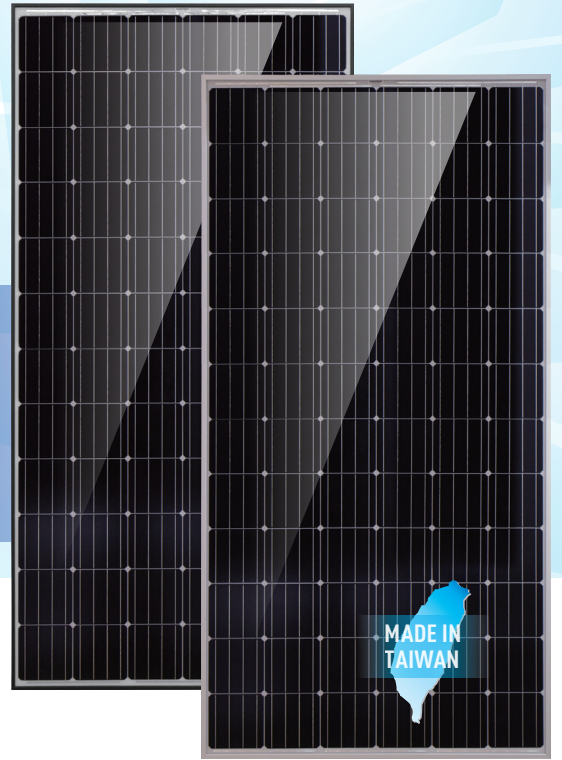
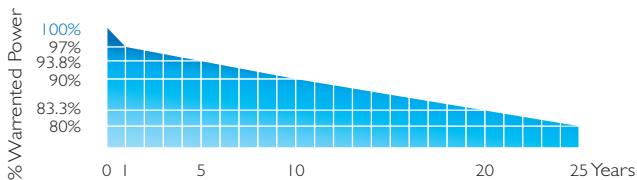
Dimension	1,968 × 992 × 40 mm
Weight	21.5 Kg

Certifications

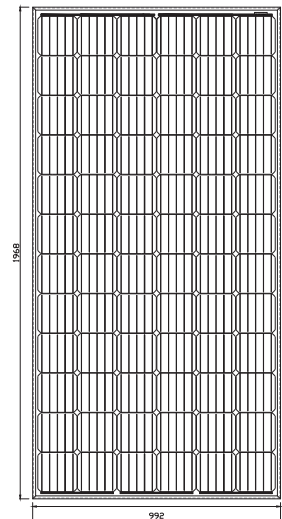
- TÜV Rheinland IEC 61215:2016、IEC 61730-1:2016&IEC 61730-2:2016
- CE
- ISO 9001:2008 Quality management system
- ISO 14001:2015 Standards for environmental management system
- ISO 50001:2011 Energy management system
- OHSAS 18001:2007 International standards for occupational health and safety

Warranty

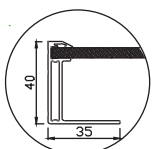
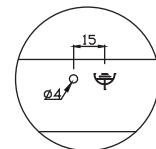
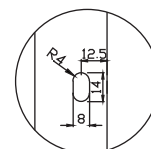
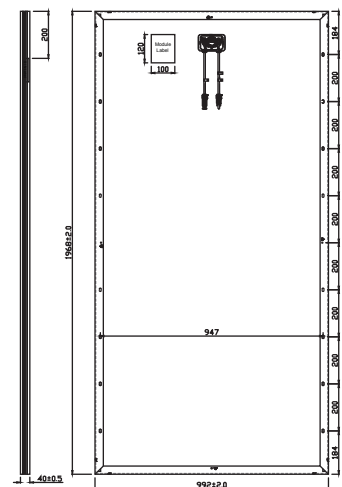
- 10-year materials and workmanship warranty.
- 25-year linear power warranty.



Module Front Side



Module Rear Side



V-Series 365 W

4BB Monocrystalline Solar Module



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Performance Under Standard Test Conditions

Model Name		TS72-6M3-350	TS72-6M3-355	TS72-6M3-360	TS72-6M3-365
Max. power at STC	P_{max} W	350	355	360	365
Max. power voltage	V_{mp} V	37.59	38.05	38.50	38.93
Max. power current	I_{mp} A	9.31	9.33	9.35	9.38
Open circuit voltage	V_{oc} V	46.37	46.81	47.25	47.75
Short circuit current	I_{sc} A	9.88	9.90	9.92	9.94
F.F. (%)	%	75.14%	76.60%	76.80%	76.90%
Module Conversion Eff.	%	17.93%	18.18%	18.44%	18.70%
Module Effective Conversion Eff.	%	19.90%	20.18%	20.46%	20.75%

* Standard Test Condition(1,000W/m²,25°C,AM 1.5)

* Module Conversion Eff. (%) = [Max power at STC(w) / (Solar Module Area(m²) × 1000 (w/m²))] × 100%

* Module Effective Conversion Eff. (%) = [Max power at STC(w) / (Solar Cell Total Area(m²) × 1000 (w/m²))] × 100%



Thermal Characteristics

Normal Operating cell temperature	NMOT	°C	45±2
TC I _{sc}	α	%/°C	+0.07
TC V _{oc}	β	%/°C	-0.33
TC P _{max}	δ	%/°C	-0.44

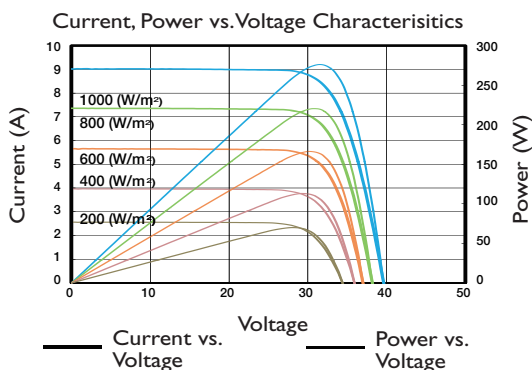
System Integration Parameters

Max. system voltage	1000V
Module fire resistance class	Class C
Application class (Safety class II)	Class A
series fuse rating	15 A
Number of bypass diodes	3
Max. mechanical load	5,400Pa
Temperature range	-40 to +85°C

Component Material

Cell type	Monocrystalline / 156.75 × 156.75mm
Cell per module	4BB / 72 pcs
Front	Low-iron glass / Tempered
Encapsulant Film	Ethylene Vinyl Acetate(EVA)
Rear	Backsheet
Frame	6063T5 Anodized aluminum (silver/black)
Junction Box	IP68 Type1  Type2 
Connector	MC4 Compatible
Cable	1200mm / 12 AWG / 4mm ²

IV Curve



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