



E-Series Modules

Monocrystalline Solar Modules

Peak Power: 330-345Wp

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 Pressure (Mechanical loading) up to 10,000 pa (Optional)
- 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

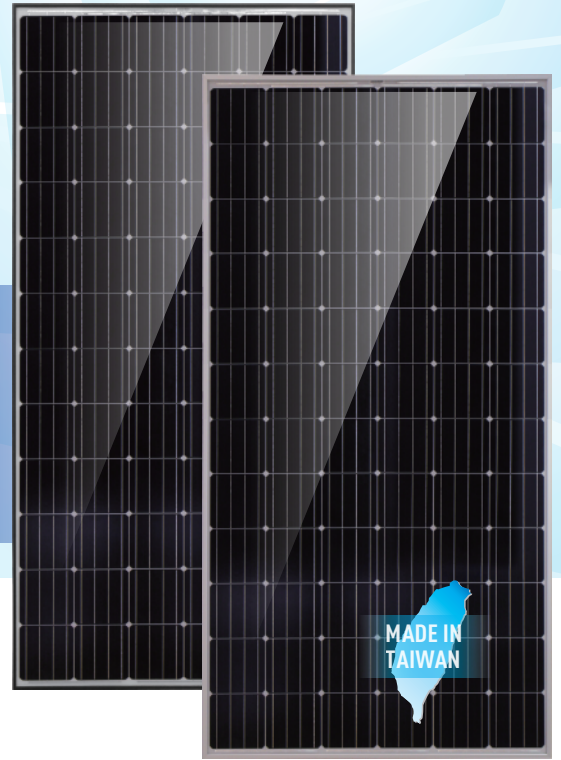
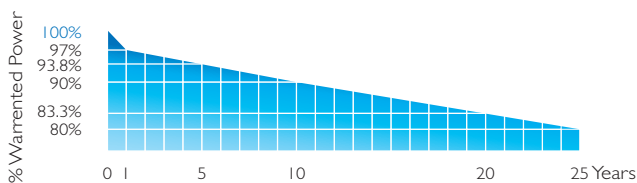
| | |
|-----------|---------------------|
| Dimension | 1,965 × 993 × 40 mm |
| Weight | 21.5 Kg |

Certifications

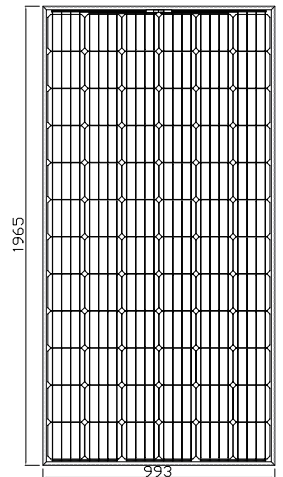
- TÜV Rheinland IEC 61215:2005、IEC 61730-1:2004&IEC 61730-2:2004
- CE / MCS / ETL UL-1703
- ISO 9001:2008 Quality management system
- ISO 14001:2004 Standards for environmental management system
- ISO 50001:2011 Energy management system
- OHSAS 18001:2007 International standards for occupational health and safety

Warranty

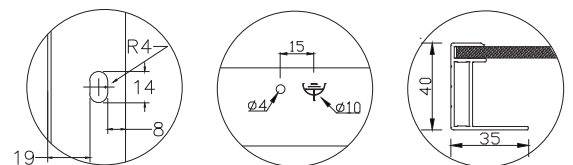
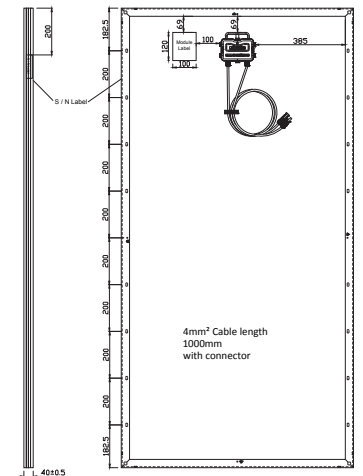
- 10-year materials and workmanship warranty.
- 25-year linear power warranty.



Module Front Side (4BB)



Module Rear Side



E-Series 345W

Monocrystalline Solar Module



Make the best better.
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Performance Under Standard Test Conditions

| Model Name | | TS72-6M3-330 | TS72-6M3-335 | TS72-6M3-340 | TS72-6M3-345 |
|----------------------------------|-------------|--------------|--------------|--------------|--------------|
| Max. power at STC | P_{max} W | 330 | 335 | 340 | 345 |
| Max. power voltage | V_{mp} V | 37.88 | 38.23 | 38.59 | 38.95 |
| Max. power current | I_{mp} A | 8.75 | 8.79 | 8.84 | 8.88 |
| Open circuit voltage | V_{oc} V | 47.04 | 47.43 | 47.82 | 48.20 |
| Short circuit current | I_{sc} A | 9.41 | 9.45 | 9.49 | 9.52 |
| F.F. (%) | % | 75.35% | 77.10% | 74.66% | 74.88% |
| Module Conversion Eff. | % | 16.91% | 17.17% | 17.42% | 17.68% |
| Module Effective Conversion Eff. | % | 18.76% | 19.04% | 19.33% | 19.61% |

* 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 | NOCT | °C | 45±2 |
| TC I _{sc} | ΔI _{sc} | %/°C | +0.05 |
| TC V _{oc} | ΔV _{oc} | %/°C | -0.32 |
| TC P _{max} | γ | %/°C | -0.44 |

Component Material

| | |
|------------------|--|
| Cell type | Monocrystalline / 156.75 × 156.75mm (156×156 mm) |
| 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 | IP67 |
| Connector | MC4 Compatible |
| Cable | 1000mm / 12 AWG / 4mm ² |

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 10,000Pa (By ITRI, Optional) |
| Temperature range | -40 to +85°C |

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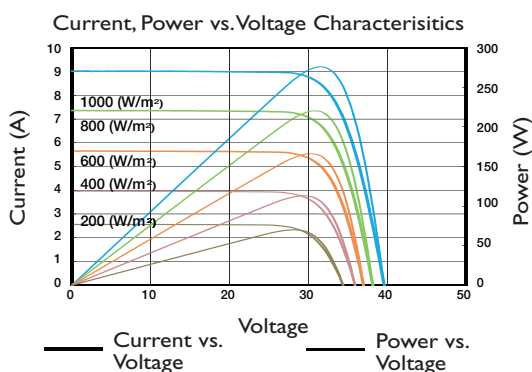
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IV Curve



* The information in this document is subject to change without notice.
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