INDUSTRY BENCHMARK SOLAR MODULES
As a global leader in PV energy, First Solar’s advanced thin film solar modules have set the industry benchmark with over 10 gigawatts (GW) installed worldwide and a proven performance advantage over conventional crystalline silicon solar modules. Generating up to 8% more energy than competing modules with the same power rating, First Solar’s Series 4™ and Series 4A™ PV Modules deliver superior performance and reliability to our customers.

PROVEN ENERGY YIELD ADVANTAGE
• Up to 8% more energy than conventional crystalline silicon solar modules with the same power
• Superior temperature coefficient (-0.29%/°C) resulting in greater energy yield in typical field operating temperatures
• Superior spectral response resulting in a proven energy yield advantage in humid environments
• Anti-reflective coated glass (Series 4A™) enhances energy production

ADVANCED PERFORMANCE & RELIABILITY
• Improved long-term power-output warranted for 25 years
• Compatible with advanced 1500V plant architectures
• Independently tested to pass accelerated life and stress tests beyond industry standards
• Highly predictable energy in all climates and applications
• Independently certified for reliable performance in high temperature, high humidity, extreme desert and coastal environments

CERTIFICATIONS & TESTS
• Thresher Test, Long-Term Sequential Test, and PID-Free
• IEC 61646 1500V, IEC 61730 1500V, CE
• IEC 61701 Salt Mist Corrosion, IEC 60068-2-68 Dust and Sand Resistance
• ISO 9001:2008 and ISO 14001:2004
• UL 1703 and ULC 1703 Listed Class B Fire Rating (Class A Spread of Flame)
• CSI Eligible (CA-USA), FSEC (FL-USA), MCS (UK), CEC Listed (Australia), SII (Israel), InMetro (Brazil)

MODULE WARRANTY
• 25-Year Linear Performance Warranty
• 10-Year Limited Product Warranty
MODULE NUMBERS AND RATINGS AT STC

### NOMINAL VALUES

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### TEMPERATURE CHARACTERISTICS

| Module Operating Temperature Range (°C) | -40 to +85 |
| Temperature Coefficient of
| | |
| Power (W) | -0.29%/°C |
| Voltage (V) | -0.28%/°C |
| Current (A) | +0.04%/°C |

### MECHANICAL DESCRIPTION

- **Length**: 1200mm
- **Width**: 600mm
- **Weight**: 12kg
- **Thickness**: 6.8mm
- **Area**: 0.72m²
- **Leadwire**: 2.5mm², 610mm
- **Connectors**: MC4
- **Bypass Diode**: None
- **Cell Type**: Thin-film CdTe semiconductor, 216 active cells
- **Frame Material**: None
- **Front Glass**: 3.2mm heat strengthened Series 4ATM includes anti-reflective coating
- **Back Glass**: 3.2mm tempered
- **Encapsulation**: Series 3 Black Lamine material with edge seal

### SUPERIOR TEMPERATURE COEFFICIENT

![Graph showing DC Power Output Relative to Power at STC (%) vs. Module Temperature (°C)]

**[end-of-life recycling**

- Recycling services available through First Solar’s industry-leading recycling program or customer-selected third party.

### MECHANICAL DRAWING

![Diagram of module mechanical drawing]

Disclaimer

The information included in this Module Datasheet is subject to change without notice and is provided for informational purposes only. No contractual rights are established or should be inferred because of user’s reliance on the information contained in this Module Datasheet. Please refer to the appropriate Module User Guide and Module Product Specification document for more detailed technical information regarding module performance, installation and use.

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