ALL NEW 60 CELLS MONO

SOMERA PRIME SERIES

Extremely NARROW POWER BINNING TOLERANCE of +2.5 Wp to reduce current mismatch loss in single string

Engineered to provide EXCELLENT LOW LIGHT and LONGER WAVELENGTH RESPONSE

EXTREMELY RELIABLE PRODUCT suiting harsh environment conditions withstanding 2400Pa Wind load, 5400Pa Snow load and Dynamic Wind load

Using highly efficient PASSIVATED EMITTER REAR CONTACT TECHNOLOGY (PERC) cells

10% HIGHER POWER OUTPUT compared to industry average poly crystalline module

QUALITY AND SAFETY
- 27 years of linear power output warranty **
- Rigorous quality control meeting the highest international standards
- 100% EL tested to ensure micro crack free modules
- Certified for PID resistance
- Certified for salt mist corrosion resistance – severity VI
- Certified for ammonia resistance
- Certified for sand and dust test

APPLICATIONS
- On-grid large scale utility systems
- On-grid rooftop residential and commercial systems
- Off-grid residential systems
**CAUTION:** READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.

Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order.

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**Electrical Data**

- **Peak Power** $P_{max}$ (Wp): 285.0 - 315.0 Wp
- **Maximum Voltage** $V_{max}$ (V): 32.1 - 32.7 V
- **Maximum Current** $I_{max}$ (A): 8.87 - 9.47 A
- **Open Circuit Voltage** $V_{oc}$ (V): 39.7 - 40.7 V
- **Short Circuit Current** $I_{sc}$ (A): 9.35 - 10.02 A
- **Module Efficiency** $\eta$ (%): 17.52 - 19.36%

**Electrical Parameters at NOCT**

- **Power (W)**: 211.0 - 233.0 W
- **Maximum Voltage** $V_{mpp}$ (V): 32.1 - 33.3 V
- **Maximum Current** $I_{mpp}$ (A): 8.87 - 9.47 A
- **Open Circuit Voltage** $V_{oc}$ (V): 39.7 - 40.7 V
- **Short Circuit Current** $I_{sc}$ (A): 9.35 - 10.02 A
- **Module Efficiency** $\eta$ (%): 17.52 - 19.36%

**Temperature Coefficients (Tc)**

- **Tc of Open Circuit Voltage ($V_{oc}$)**: -0.28%/°C
- **Tc of Short Circuit Current ($I_{sc}$)**: 0.057%/°C
- **Tc of Power ($P_{max}$)**: -0.39%/°C

**Mechanical Data**

- **Length × Width × Height**: 1640 × 992 × 36 mm (64.57 × 39.05 × 1.42 inches)
- **Weight**: 18 kg (39.68 lbs)
- **Application Class**: Class A (Safety class II)
- **Superstrate**: 3.2 mm (0.13 inches) high transmission low iron tempered glass, AR coated
- **Cells**: 60 Monocrystalline, 5BB solar cells
- **Cell Encapsulant**: EVA (Ethylene Vinyl Acetate)
- **Back Sheet**: Composite film
- **Frame**: Anodized aluminium frame with twin wall profile
- **Mechanical Load Test**: 5400 Pa (Wind load), 2400 Pa (Snow load)
- **Maximum Series Fuse Rating**: 15 A

**Warranty and Certifications**

- **Product Warranty**: 10 years
- **Performance Warranty**: Linear Power Warranty for 27 years with 3% for 1st year degradation and 0.65% from year 2 to year 27
- **Approvals and Certificates**:
  - IEC 61215 Ed2, IEC 61730, IEC 61701, IEC 62716, IEC 60068-2-68, IEC 62804, IS 14286, MCS, CEC (Australia)*, CE, UL1703

*All (*) certifications under progress.  **Refer to Vikram Solar’s warranty document for terms and conditions.

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**Dimensions**

**Typical Electrical Curves**

**Performance Warranty**

**Packaging Information**

- **Quantity/Pallet**: 28
- **Pallets/Container (40’HC)**: 28
- **Quantity/Container (40’HC)**: 784