

Len 230P Polycrystalline

Certified by B2TE BPPT Based on SNI:04-3850.2-1995

Corrosion Test Report Based on SNI:04-6298-2000



Len 230P

Polycrystalline dimanfaatkan dalam berbagai aplikasi sistem pembangkit tenaga surya baik yang berdiri sendiri (*Stand Alone System*) atau pun Sistem Komunal. Modul ini dirancang untuk memberikan daya dengan tegangan cukup untuk mengisi baterai. Tepat digunakan dalam berbagai aplikasi seperti peralatan instrumen, sensor keamanan, navigasi lampu lalu lintas dll.

Electrical Characteristics

STC

Optimum Operating Voltage (V_{mp}) : 29.3 V

Optimum Operating Current (I_{mp}) : 7.86 A

Open – Circuit Voltage (V_{oc}) : 37.4 V

Short – Circuit Current (I_{sc}) : 8.31 A

Maximum Power at STC (P_{max}) : 230 W

Modul Efficiency : 14 %

Operating Module Temperature : -40 °C to +85°C

Maximum System Voltage : 1000 V DC

Maximum Series Fuse Rating : 20 A

Power Tolerance : + 0 – 3 %

STC : Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;

Power measurement tolerance : ±3 %

Mechanical Characteristics

Solar Cell : Polycrystalline

No. of Cells : 60 (6 X 10)

Dimensions : 1650 X 990 X 50 mm

Weight : 21.0 Kg

Front Glass : 3.2 mm (0.13 inches) tempered glass

Frame : Anodized aluminium alloy

Junction Box : IP65

Output Cables : TUV (2Pfg1169:2007), UL 4703, UL 44 4 mm² (0.00375 inches²)

Connectors : ZJRH connectors(MC3 or Mc4 type), symmetrical lenght – 1000mm(-) and 1000 mm(+)

Diodes : Schottky by-pass diodes

Temperature Characteristics

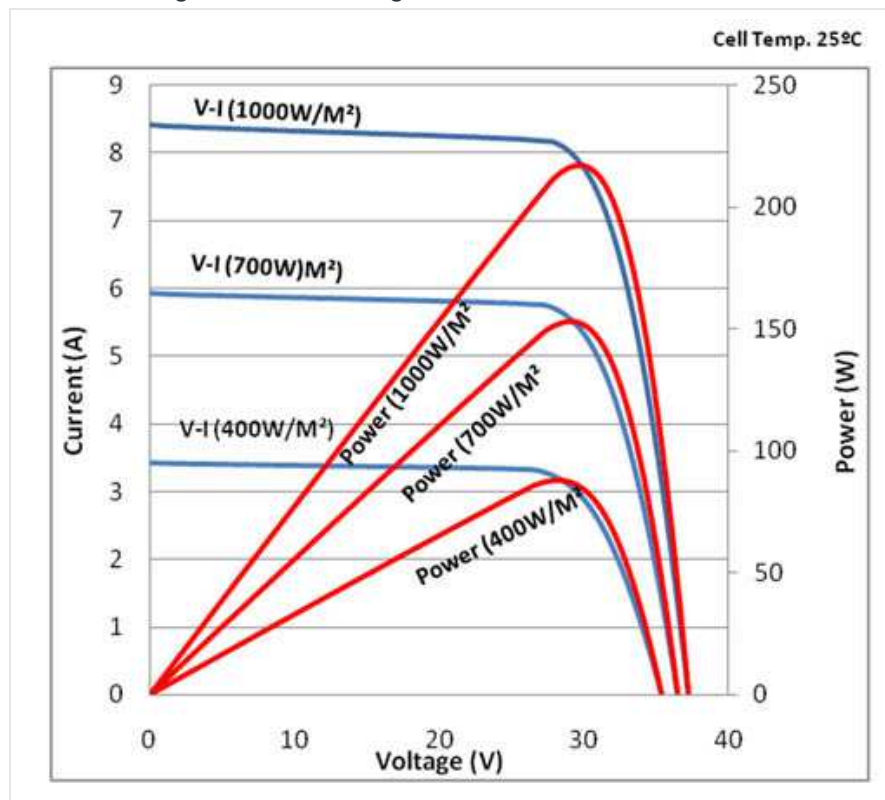
Nominal Operating Cell Temperature (NOCT) : $45 \pm 2 \text{ }^{\circ}\text{C}$

Temperature Coefficient of Power : $-0.44 \text{ } \%/^{\circ}\text{C}$

Temperature Coefficient of V_{oc} : $-0.32 \text{ } \%/^{\circ}\text{C}$

Temperature Coefficient of I_{sc} : $0.055 \text{ } \%/^{\circ}\text{C}$

Current-Voltage & Power-Voltage Curve



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