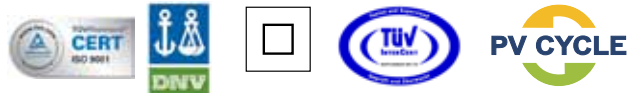
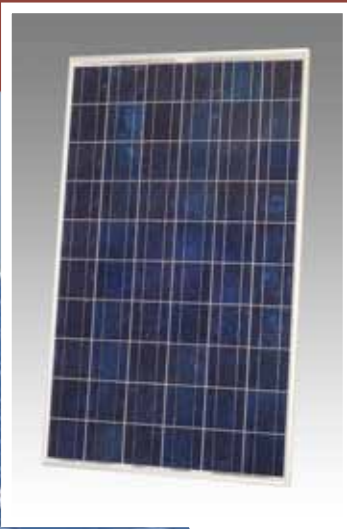


Max Series (200 W_p – 245W_p)

Model No: CAAP-BB



- ▶ **High Energy Yields (kWh/kWp)** – Best-in-class diffused light response leading to less power degradation and delivering one of the lowest levelized costs
- ▶ **Rigorous Quality Control** – The only solar company in the world to be awarded a 5-star rating for quality systems by TUV two years in a row
- ▶ **Manufacturing Excellence** – Top-of-the-line manufacturing equipment from Europe and Japan backed by in-house reliability testing capabilities
- ▶ **Highest Safety Standards** – Conform to IEC, UL & CE standards
- ▶ **Robust Design** – Anodized frames ensure protection in all-weather-conditions. High quality, low iron, high transmissivity, tempered and textured glass to ensure higher light absorption
- ▶ **Extended Mechanical Warranty** – Modules come with 10 years mechanical warranty against manufacturing defects with performance warranty of 12 years at 90% of rated output power and 25 years at 80% of rated output power
- ▶ **Ease of Installation** – UL and IEC approved IP65 rated junction box, pre-fitted with cables and plug & play connectors for quick and safe installation
- ▶ **Superior aesthetics** – Uniform cell color and high quality anodization on the frames
- ▶ **Certifications:** IEC 61215 (Edition II), IEC 61730 (Safety Class II), UL (USA & Canada), CE, CEC Listed, JET, MCS, IEC 61701 (Salt mist corrosion test), Ammonia Resistance Test



Member of PV Cycle for voluntary take-back and Recycling Program

Max Series modules are specifically designed to generate optimum energy from sunlight and can withstand the roughest of conditions. These can be used in a variety of applications suited for residential, commercial and industrial purposes.

Max Series (200 W_p – 245W_p)

Model No: CAAP-BB



ELECTRICAL CHARACTERISTICS

| | 200W _p | 205W _p | 210W _p | 215W _p | 220W _p | 225W _p | 230W _p | 235W _p | 240W _p | 245W _p |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Maximum Power, P _{max} (W) | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | 245 |
| Voltage at Pmax, V _{mp} (V) | 28.02 | 28.29 | 28.58 | 28.79 | 29.03 | 29.27 | 29.50 | 29.83 | 30.16 | 30.67 |
| Current at Pmax, I _{mp} (A) | 7.14 | 7.25 | 7.35 | 7.47 | 7.58 | 7.69 | 7.80 | 7.88 | 7.96 | 7.99 |
| Open Circuit Voltage V _{oc} (V) | 36.05 | 36.25 | 36.38 | 36.50 | 36.64 | 36.95 | 37.25 | 37.41 | 37.65 | 37.77 |
| Short Circuit Current I _{sc} (A) | 7.95 | 7.99 | 8.04 | 8.07 | 8.14 | 8.23 | 8.34 | 8.44 | 8.49 | 8.55 |
| Temperature Coefficient of P _{max} (%/K) | -0.45 | | | | | | | | | |
| Temperature coefficients of V _{oc} (%/K) | -0.35 | | | | | | | | | |
| Temperature coefficients of I _{sc} (%/K) | 0.05 | | | | | | | | | |
| Power Tolerance (%) | ± 3 | | | | | | | | | |
| Maximum System Voltage (IEC/UL) (V DC) | 1000/600 | | | | | | | | | |
| Cells per By-pass Diode (Nos) | 20 | | | | | | | | | |

- Standard Test Conditions (STC): Irradiance 1000 W/m², Module temperature at 25°C and AM 1.5G Spectrum
- Max Series fuse ratings: 15A
- Operating Temperature (°C): (-)40 to (+)85
- NOCT (Nominal Operating Cell Temperature) (°C) 45.0±2

ENVIRONMENTAL TEST CONDITIONS

- Operating Temperature (temperature cycling range): (-)40°C to (+)85°C for 200 cycles
- Static Load Front and Back (e.g. wind): 50 lbs/ft² or 2400 Pa
- Impact Resistance (e.g. hail): 25mm at 23 m/s at 11 impact locations
- Humidity Freeze, Damp Heat: 85°C and 85 % relative humidity for 1000 hours
- Front Loading (e.g. snow): 113 lbs/ft² or 5400 Pa

MECHANICAL CHARACTERISTICS

Number and Arrangement of Cells 156mmx156mm Multicrystalline Silicon Cells, 6x10 configuration

Dimensions (mm) 1661 x 991 x 37

Weight (kgs) 18.7

Frame Anodized aluminum frame with twin-wall profile

Anodization Thickness 17 μm

Front Glass High transmission, low iron, tempered and textured glass, 3.2mm

Junction Box IEC/ UL approved IP65 rated 4 terminal junction box with 3 by-pass diodes (15A, 45V)

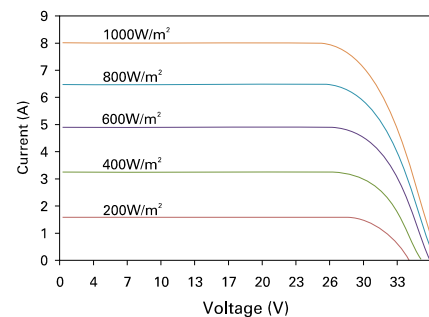
Output Cables USE-2 Solar cables, 4mm² cross-section, asymmetric length 800mm x 1200mm

Type of Connector Low resistance, IEC/UL approved (compatible with MC4)

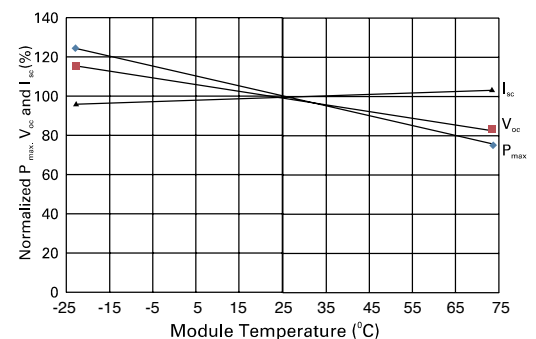
Mounting Holes Elliptical and 4 nos (9mm x 7mm)

Grounding Hole Circular and 2 nos (4mm dia) - In accordance with NEC Article 250 (USA) or CEC (Canada)

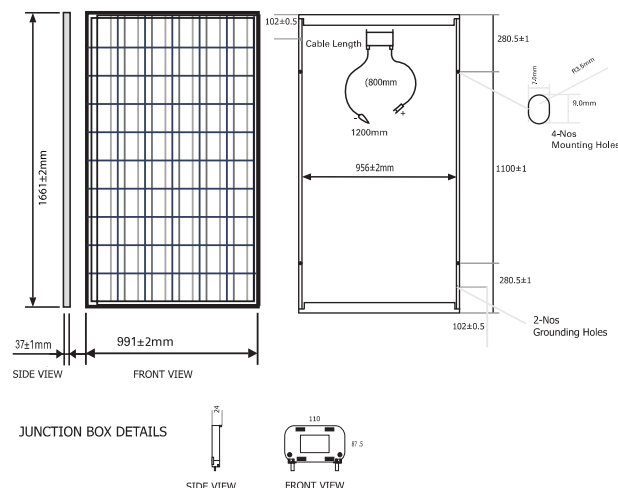
IV CURVES AT VARIOUS IRRADIANCE LEVELS AT 25°C



P_{max}, V_{oc}, I_{sc} AS A FUNCTION OF MODULE TEMPERATURE



ENGINEERING DRAWING



PACKAGING

| | |
|-------------------------------|-------------------|
| Dimensions of Pallets (mm) | 1690 x 750 x 1163 |
| Modules/pallet | 18 |
| Pallets/40ft HC container | 42 (756 modules) |
| Gross weight per pallet (kgs) | 372 |

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