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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Moser Baer Solar Limited  
Max Series 200-245  
CAAP BB240**

Also available on the web at  
[EnergyPal.com/moser-baer-solar-limited-solar-panels/caap-bb240](http://EnergyPal.com/moser-baer-solar-limited-solar-panels/caap-bb240)

# Max Series (200 W<sub>p</sub> – 245W<sub>p</sub>)

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<sub>p</sub> – 245W<sub>p</sub>)

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## ELECTRICAL CHARACTERISTICS

	200W <sub>p</sub>	205W <sub>p</sub>	210W <sub>p</sub>	215W <sub>p</sub>	220W <sub>p</sub>	225W <sub>p</sub>	230W <sub>p</sub>	235W <sub>p</sub>	240W <sub>p</sub>	245W <sub>p</sub>
Maximum Power, P <sub>max</sub> (W)	200	205	210	215	220	225	230	235	240	245
Voltage at Pmax, V <sub>mp</sub> (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 <sub>mp</sub> (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 <sub>oc</sub> (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 <sub>sc</sub> (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 <sub>max</sub> (%/K)	-0.45									
Temperature coefficients of V <sub>oc</sub> (%/K)	-0.35									
Temperature coefficients of I <sub>sc</sub> (%/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/m<sup>2</sup>, 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

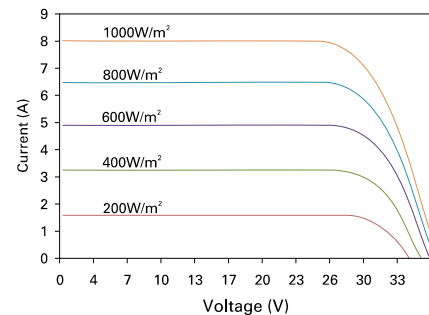
### ENVIRONMENTAL TEST CONDITIONS

- Operating Temperature (temperature cycling range): (-)40°C to (+)85°C for 200 cycles
- Static Load Front and Back (e.g. wind): 50 lbs/ft<sup>2</sup> 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/ft<sup>2</sup> or 5400 Pa

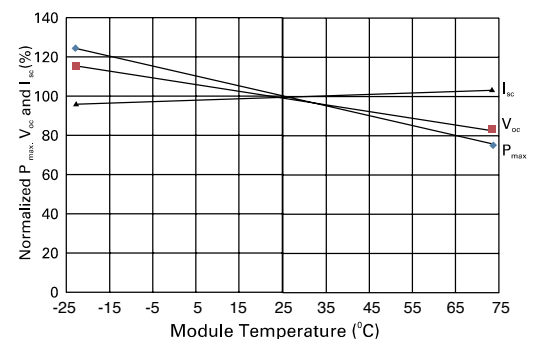
## MECHANICAL CHARACTERISTICS

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, 4mm <sup>2</sup> 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)

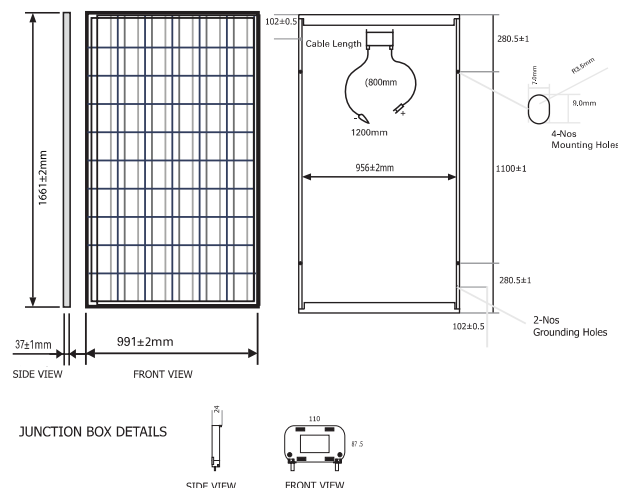
## IV CURVES AT VARIOUS IRRADIANCE LEVELS AT 25°C



## P<sub>max</sub>, V<sub>oc</sub>, I<sub>sc</sub> 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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