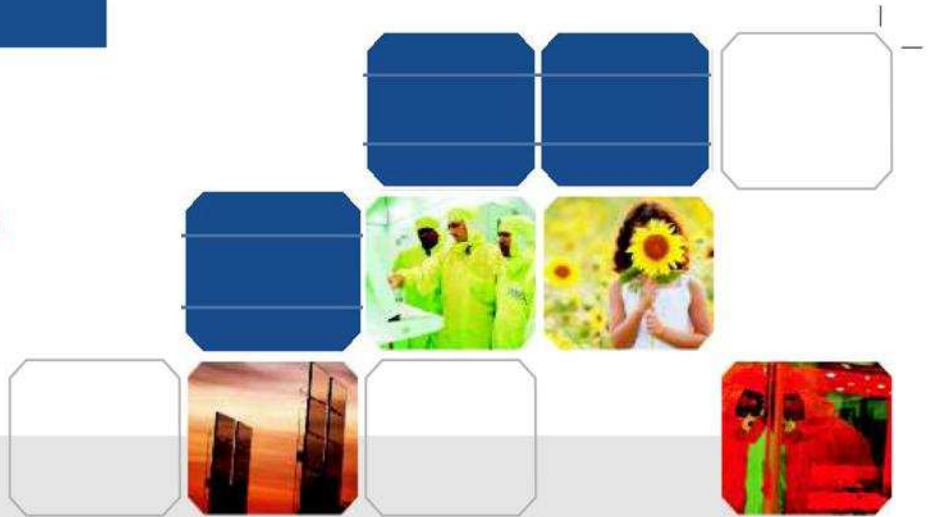


## MBPV MAX SERIES MODULES



### “Max Series” Solar Modules Model “MBPV CAAP”

60 cell solar PV module using 6" poly crystalline silicon cells, 10 x 6 matrix-210W<sub>p</sub>

“Max series” modules are available from 210Wp to 215Wp. They are designed for versatility in applications and suited for residential, commercial and industrial purposes. The module uses high efficiency poly crystalline silicon solar cells; high transmittivity, low iron content, tempered and toughened glass and premium quality encapsulation materials having superior UV and thermal properties.

Solar Cells are manufactured in-house in an integrated and automated cell factory at Greater Noida, India. Automated inspection and the use of cutting edge silicon nitride deposition processes ensures tight tolerances and high fidelity in colour uniformity and efficiency range.



### Typical electrical characteristics

MODEL “MBPV CAAP”		210W <sub>p</sub>
Maximum power, P <sub>max</sub>	[W]	210
Voltage at P <sub>max</sub> , V <sub>mp</sub>	[V]	28.7
Current at P <sub>max</sub> , I <sub>mp</sub>	[A]	7.4
Open circuit voltage, V <sub>oc</sub>	[V]	36.2
Short circuit current, I <sub>sc</sub>	[A]	7.7
Temperature coefficient of P <sub>max</sub>	[% / K]	-0.50
Temperature coefficient of V <sub>oc</sub>	[% / K]	-0.35
Temperature coefficient of I <sub>sc</sub>	[% / K]	0.07
Power tolerance	[%]	±3
Max system voltage	[V <sub>oc</sub> ]	1000

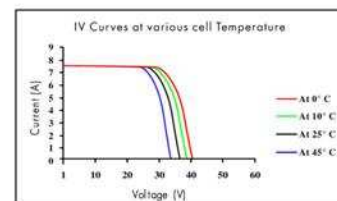
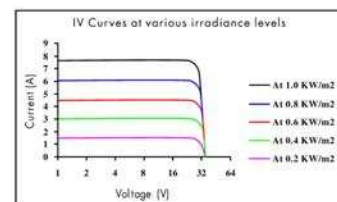
\* Standard Test Conditions (STC) 25°C, AM 1.5, Intensity = 1 kW/m<sup>2</sup> (1 sun)

\* Operating temperature (Min. to Max.) = -40 to +85°C

\* NOCT (Nominal Operating Cell Temperature) = 43.1°C

\* Max series fuse = 10 A

The above parameters are subject to change



Max Series Modules are fitted with IEC and UL approved IP65 rated 4 terminal junction box with bypass diodes (16A, 40V) that facilitates series or parallel connections in an array. Additionally the modules are provided with low resistance UL approved connectors and USE-2 Solar cables (4mm<sup>2</sup> Cross-section) of asymmetric lengths (+850mm/-1200 mm) that enable easy and speedy installation of solar arrays. The modules have screw type aluminum anodized (17μ) frames with mounting, grounding and drainage holes as per international standards to withstand extreme weather conditions

### Applications

**MBPV** modules can be used in customized applications like water pumping, remote telecom sites, off grid rural applications, grid connect systems, roof tops etc.

### Warranty and certifications

#### Mechanical warranty

**Max Series** modules are manufactured using premium quality and proven materials using high performance machines. These module undergo stringent in-house quality checks for visual and technical specifications. Modules carry a 60 months warranty for manufacturing defects.

#### Electrical warranty

All modules are tested at an in-house highly reputed and reliable module tester. Max Series modules are warranted to perform not below 90% of the minimum power output during a 12 year period and 80% upto 25 years.

#### Refer warranty card for standard warranty terms.

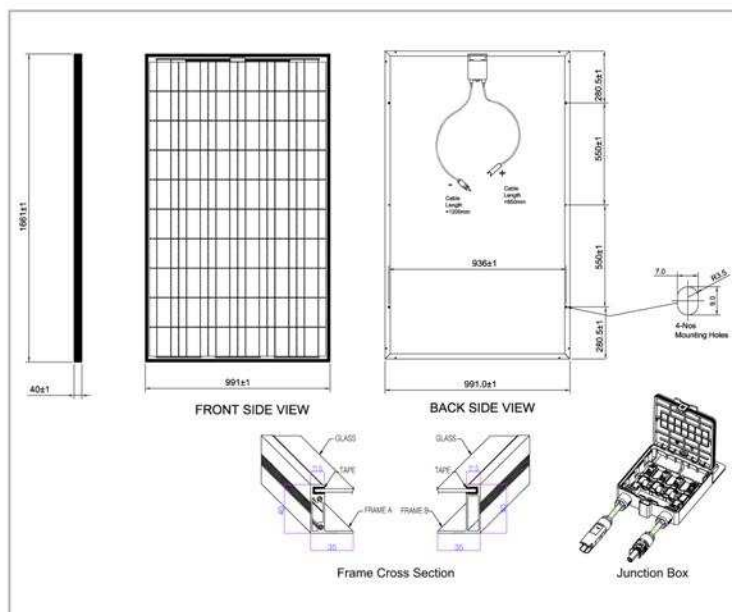
*MBPV shall not provide any other implicit or explicit product warranties and shall not be liable for any claims or liabilities as a result of any use, including but not limited to inappropriate use, misuse or malfunctioning of the product in any manner.*

### Mechanical characteristics

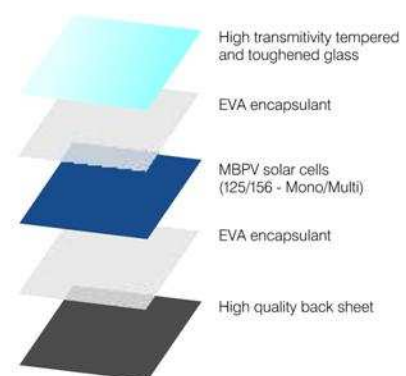
<b>Model "MBPV CAAP"</b>	<b>210W<sub>p</sub></b>
Length	1661 mm
Width	991 mm
Thickness	40 mm
<b>Mounting hole</b>	
Type	Elliptical
Dimensions	9 mm X 7 mm
<b>Grounding hole</b>	
Type	Circular
Dimensions	4 mm dia
<b>Drainage hole</b>	
Type	Circular
Dimensions	4 mm dia
Module weight	19.5 kg

### Packaging

Model	"MBPV CAAP"
Dimensions (L x B x H)mm/inch	1690 x 750 x 1157/66.53 x 29.52 x 45.55
No. of modules per pallet	17
No. of pallets per 40 feet container	42
No. of modules per 40 feet container	714
Approximate gross weight per pallet(Kgs)/Lbs	380/172



### Module Materials



The information provided here is for general informational purposes only and are subject to change without notice. Obtain detailed specifications from an MBPV sales associate before making procurement decisions

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