

VBMS290AJ07

High performance

-Monocrystalline solar cells with module efficiency up to 17.8%, output is also reaching at 290W

Anti-PID Design

-Products satisfy IEC62804 tests by anti-PID cell and module technology

Robust mechanical durability

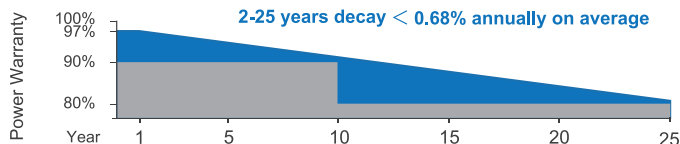
-Strong mechanical durability of 5400Pa front snow, wind load *

* Mounting system should be designed with allowable maximum load.

LINEAR PERFORMANCE WARRANTY

10 years Product warranty on materials and workmanship

25 years Linear power output warranty



Quality

Panasonic is leading the way in research and development as a pioneer in the field of photovoltaic power generation. More than 40 years of experience in solar technology have earned us a reputation for reliability among our customers. Our accumulated know-how of quality provides you higher quality Monocrystalline.

Reliability

Panasonic is also known as Global company with its brand, good customer service, and reliability. Not only the technology, but also we provide loyally high performance services for each customer.

Electrical and Mechanical Characteristics

VBMS290AJ07

Electrical data [at STC]

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Max. power (Pmax) [W]	290
Max. power voltage (Vmp) [V]	31.9
Max. power current (Imp) [A]	9.10
Open circuit voltage (Voc) [V]	39.1
Short circuit current (Isc) [A]	9.62
Max. over current rating [A]	15
Power tolerance [%]	+3/-0
Max. system voltage [V]	1000
Solar Panel efficiency [%]	17.8

Note: Standard Test Conditions: Air mass 1.5; Irradiance = 1000W/m²; cell temp. 25°C
 * Maximum power at delivery. For guarantee conditions, please check our guarantee document.

Temperature characteristics

Temperature (NOCT) [°C]	45±2
Temp. coefficient of Pmax [%/°C]	-0.39
Temp. coefficient of Voc [%/°C]	-0.30
Temp. coefficient of Isc [%/°C]	+0.050

At NOCT [Normal Operating Conditions]

Max. power (Pmax) [W]	214.3
Max. power voltage (Vmp) [V]	29.53
Max. power current (Imp) [A]	7.26
Open circuit voltage (Voc) [V]	36.18
Short circuit current (Isc) [A]	7.77

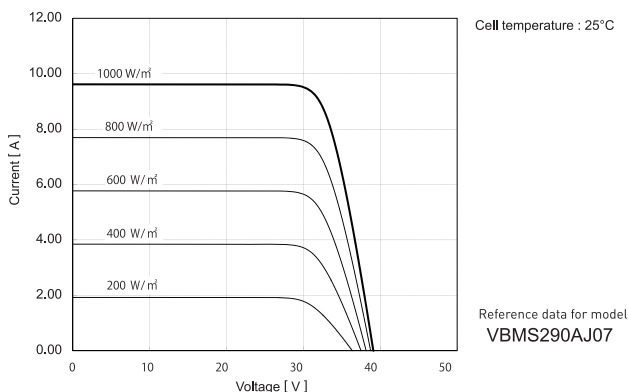
Note: Normal Operating Cell Temp.: Air mass 1.5; Irradiance = 800W/m²; Air temperature 20°C; wind speed 1 m/s

Pallet size

Container 20' GP	360 pcs
Container 40' GP	840 pcs
Quantity/ Pallet	30 pcs

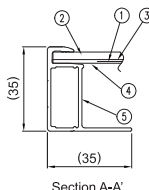
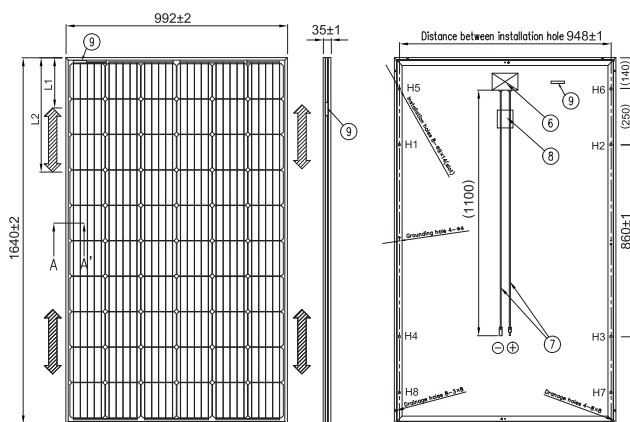
Note: Low irradiance: Air mass 1.5; Irradiance = 200W/m²; cell temp. = 25°C

Dependence on irradiance



Dimensions and weight

Weight: 18.5kg



Mount Locations and Load Resistance

Mounting location range	L1	200	205	-	-
	L2	570	273	-	-
H1-H4	-	-	390	-	-
H1-H8	-	-	-	140, 390	-
Load Resistance (Positive Load)	2400 Pa	5400 Pa	2400 Pa	5400 Pa	5400 Pa
Load Resistance (Negative Load)	2400 Pa	2400 Pa	2400 Pa	2400 Pa	2400 Pa

1 SOLAR CELL	6 JUNCTION BOX
2 GLASS	7 CABLE WITH CONNECTOR
3 ENCAPSULANT	8 MODULE LABEL
4 BACK SHEET	9 BARCODE LABEL
5 FRAME	

Warranty

Power output: 25 years on linear output warranty
 2-25 years decay < 0.68% annually on average
 Product workmanship: 10 years (based on warranty document)

Materials

Cell material: 6 inch photovoltaic cells
 Glass material: AR coated tempered glass
 Frame materials: Silver anodized aluminium
 Connectors type: MC4 EVO2 [compatible with MC4 cable]

Certificates

IEC61215
 IEC61730-1
 IEC61730-2



Please consult your local dealer for more information

CAUTION! Please read the installation manual carefully before using the products.

Used electrical and electronic products must not be mixed with general household waste. For proper treatment, recovery and recycling of old products, please take them to applicable collection points in accordance with your national legislation.

Panasonic Corporation Eco Solutions Company

<http://panasonic.net/ecosolutions/solar>

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