

VBMS380AJ09

High performance

Monocrystalline solar cells with module efficiency up to 19.6 %, output is also reaching at 380 W

Harsh Environment Adaptability

Salt mist resistance: certified according to IEC61701*
Ammonia resistance: certified according to IEC62716*
Dust and sand resistance: certified according to IEC60068*

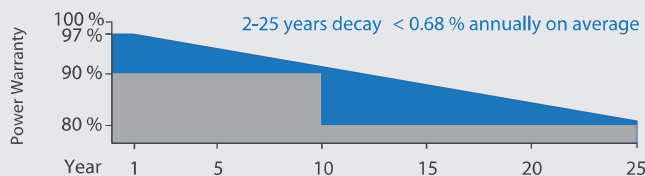
Anti-PID Design

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



* Under applying as of Oct. 2019

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 Mono crystalline.

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

VBMS380AJ09

Electrical data (at STC *)

VBMS380AJ09

Max. power (Pmax)[W]	380
Max. power voltage (Vmp) [V]	39.1
Max. power current (Imp) [A]	9.72
Open circuit voltage (Voc) [V]	48.5
Short circuit current (Isc) [A]	10.22
Max. over current rating [A]	20
Power tolerance [%]	+3/-0
Max. system voltage [V]	1000
Solar Panel efficiency [%]	19.6

*1 STC: Standard Test Conditions: Air mass 1.5; Irradiance = 1000 W/m²; cell temp. = 25 °C
*2 Maximum power at delivery. For warranty conditions, please check our warranty 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]	281.8
Max. power voltage (Vmp) [V]	36.48
Max. power current (Imp) [A]	7.72
Open circuit voltage (Voc) [V]	44.90
Short circuit current (Isc) [A]	8.26

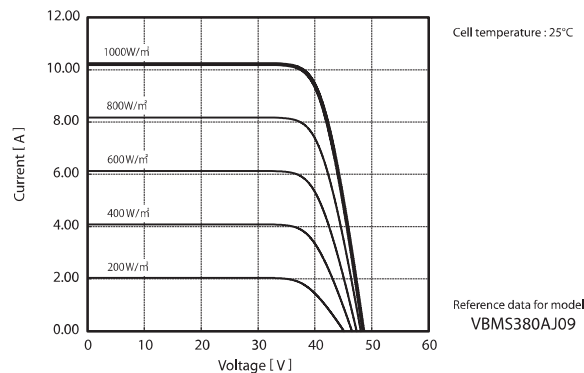
Note: Normal Operating Cell Temp.: Air mass 1.5; Irradiance = 800 W/m²; Air temp. = 20 °C; wind speed 1m/s

Pallet size

Container 20'GP	260 pcs
Container 40'GP	624 pcs
Quantity/ Pallet	26, 26+4 pcs

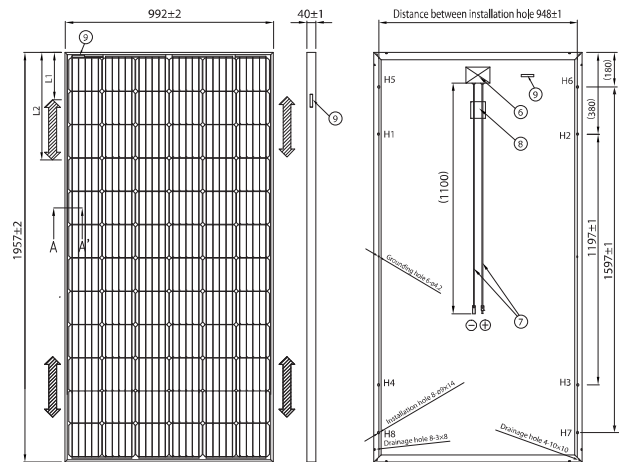
Note: Low irradiance: Air mass 1.5; Irradiance = 200 W/m²; cell temp. = 25 °C

Dependence on irradiance



Dimensions and Weight

Weight: 22.5 kg



Mount Locations and Load Resistance

Mounting location range	L1	245	245	-	-
	L2	489	336	-	-
H1-H4	-	-	380	-	-
H1-H8	-	-	-	180, 380	-
Load Resistance (Positive Load)	2400Pa	5400Pa	2400Pa	5400Pa	-
Load Resistance (Negative Load)	2400Pa	2400Pa	2400Pa	2400Pa	-

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

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 EV02 [compatible with MC4 cable]

Certificates

IEC61215
IEC61730-1
IEC61730-2



Electrical Protection Class II

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 to 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 Life Solutions company

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