

M754SH-BB Series

10BB HALF-CELL Black Monocrystalline PERC PV Module

390-410W

POWER RANGE

21.00%

MAXIMUM EFFICIENCY

0.55%

YEARLY DEGRADATION



25 YEAR PRODUCT WARRANTY



25 YEAR OUTPUT GUARANTEE



ISO 9001: Quality Management System

* As there are different certification requirements in different markets, please contact your local sunmac solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

Key Features



Excellent Cell Efficiency

MBB technology reduces the distance between busbars and finger grid lines which increase power output.



Better Weak Illumination Response

More power output in weak light conditions, such as hazy or cloudy skies and early morning Sunlight



Anti PID

Ensured PID resistance through the quality control of cell manufacturing processes and sourcing of raw materials.



Adapted To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia, sand, high temperatures and high humid environments.



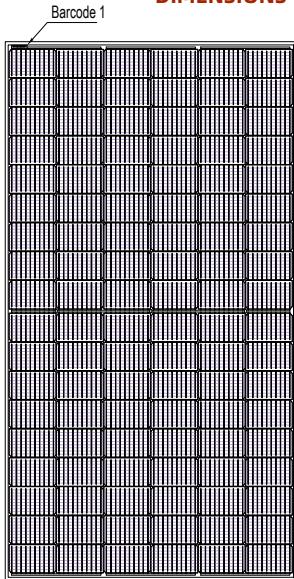
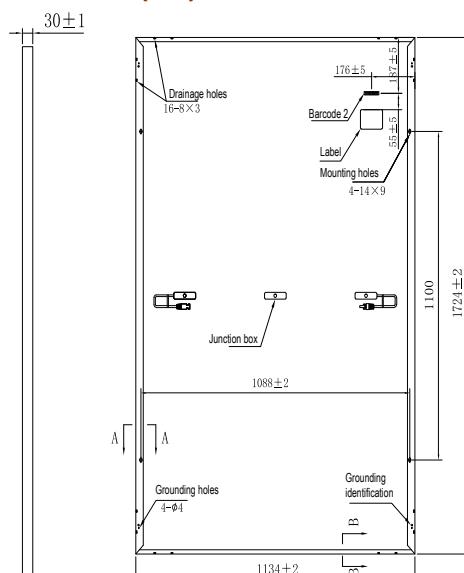
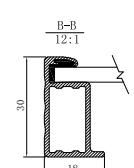
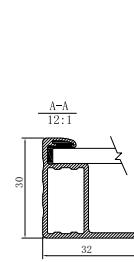
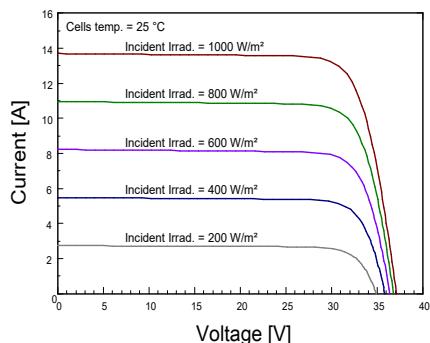
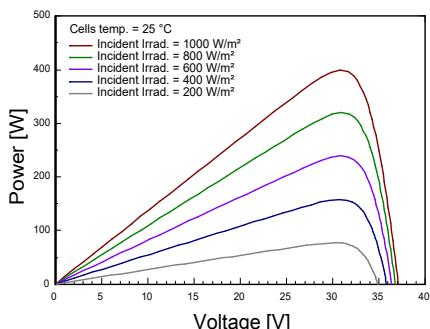
Improved Aesthetics

Compared to conventional modules, our full black modules have a more uniform appearance and superior aesthetics.



Excellent Quality Management System

Warranted reliability and stringent quality assurances well beyond certified requirements.

DIMENSIONS OF PV MODULE (mm)

Front View

Back View

I-V CURVES OF PV MODULE (400W)

P-V CURVES OF PV MODULE (400W)


*Remark: customized frame color and cable length available upon request

ELECTRICAL CHARACTERISTICS | STC*
MECHANICAL DATA

Nominal Power Watt Pmax(W)*	390	395	400	405	410	Solar cells	Mono PERC
Maximum Power Voltage Vmp(V)	30.50	30.70	30.90	31.10	31.30	Cells orientation	108 (6x18)
Maximum Power Current Imp(A)	12.79	12.87	12.95	13.03	13.10	Module dimension	1724x1134x30 mm (With Frame)
Open Circuit Voltage Voc(V)	36.70	36.90	37.10	37.30	37.50	Weight	20.5±1.0 kg
Short Circuit Current Isc(A)	13.56	13.63	13.70	13.77	13.84	Glass	3.2mm, High Transmission, AR Coated Tempered Glass
Module Efficiency (%)	19.97	20.23	20.48	20.74	21.00	Junction box	IP 68, 3 diodes

*The data above is for reference only and the actual data is in accordance with the practical testing

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5

*Measuring uncertainty: ±3%, all the electrical characteristics such as Power, Im, Vm and FF are within ±3% tolerance.

Cables 4 mm², 350 mm or Customized Length

Connectors * MC4-compatible

* Please refer to regional datasheet for specified connector

ELECTRICAL CHARACTERISTICS | NMOT*
TEMPERATURE RATINGS
WORKING CONDITIONS

Maximum Power Pmax(Wp)	291.50	295.20	299.00	302.70	306.30	NMOT	44°C ±2°C	Maximum system voltage	1500 V DC
Maximum Power Voltage Vmpp(V)	28.30	28.50	28.70	28.90	29.10	Temperature coefficient of Pmax	-0.35%/°C	Operating temperature	-40°C~+85°C
Maximum Power Current Impp(A)	10.29	10.35	10.41	10.47	10.53	Temperature coefficient of Voc	-0.29%/°C	Maximum series fuse	25 A
Open Circuit Voltage Voc(V)	34.30	34.50	34.70	34.80	35.00	Temperature coefficient of Isc	0.05%/°C	Front Side Maximum Static Loading	Up to 5400Pa
Short Circuit Current Isc(A)	10.95	11.01	11.06	11.12	11.18			Rear Side Maximum Static Loading	Up to 2400Pa

* NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

*Remark: Do not connect Fuse in Combiner Box with two or more strings in parallel connection

*Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.

They only serve for comparison among different module types.

*Caution: Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

PACKAGING CONFIGURATION*

Container	40' HQ
Piece/Box	36
Piece	936
Piece(with additional small package)	/

* Customized packaging is available upon request.

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