

# BM9R-T54HDB

490-510W

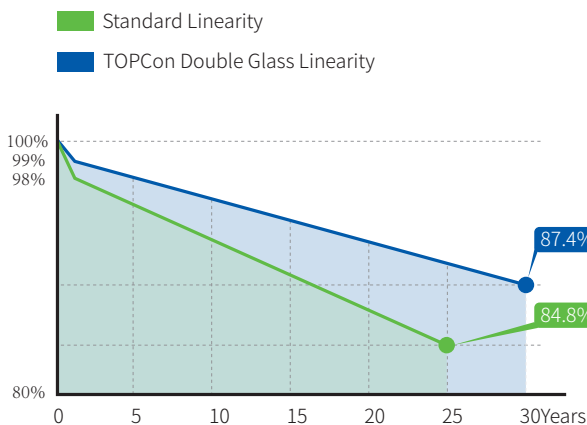
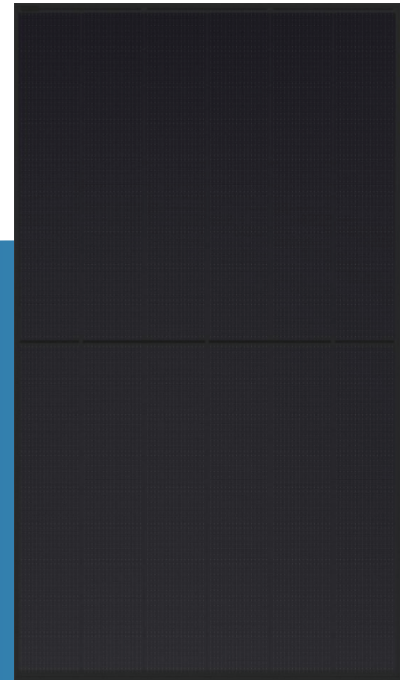
**FOR  
ROOFTOP**

Maximum Power Output:

**510W**

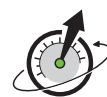
Maximum Module Efficiency:

**22.78%**



**15**  
years Product  
Warranty

**30**  
years Linear  
Power  
Warranty



## Super Power Output

Adopting high-density encapsulation and using BAJ advanced SMBB TOPCon cell provides ultra-high power output



## More Power Generation

Less than 1% 1st year degradation, lower temperature coefficient and better weak-light response combined with rear side gain improves module power generation



## Excellent Reliability Performance

Excellent harsh tests results and hot spot resistance improves product reliability for long-term life cycle



## Aesthetic Design

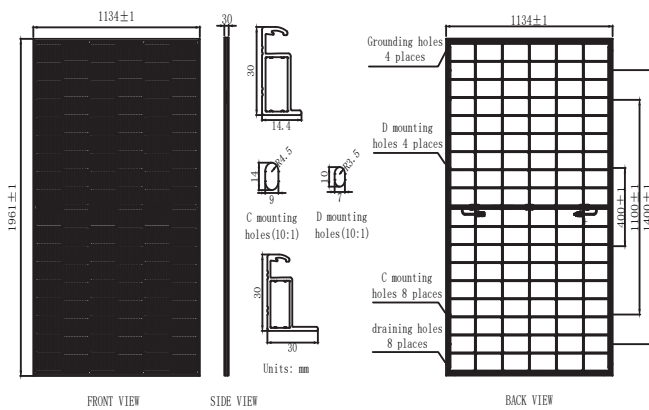
Full black design brings highly consistent appearance for rooftops.

Electric Characteristics

Module Type	BM9R-T54HDB-490		BM9R-T54HDB-495		BM9R-T54HDB-500		BM9R-T54HDB-505		BM9R-T54HDB-510	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power (Pmax)[W]	490	540	495	545	500	550	505	555	510	560
Open-Circuit Voltage (Voc)[V]	39.72	39.88	39.92	40.08	40.12	40.28	40.32	40.48	40.52	40.68
Short-Circuit Current (Isc)[A]	15.79	17.61	15.82	17.64	15.85	17.67	15.88	17.70	15.91	17.73
Maximum Power Voltage (Vmp)[V]	33.92	32.70	33.12	32.92	33.32	33.14	33.52	33.36	33.72	33.58
Maximum Power Current (Imp)[A]	14.90	16.51	14.96	16.56	15.02	16.60	15.08	16.64	15.14	16.68
Module Efficiency	21.89%		22.11%		22.34%		22.56%		22.78%	
Power Tolerance	0~+5W									

(STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, Atmospheric quality AM 1.5G; BNPI: Rear side Irradiance 135W/m<sup>2</sup>, Cell temperature 25°C, Atmospheric quality AM 1.5G, Wind speed 1m/s)

Engineering Drawing



Product Specification

Cell Type	TOPCon Mono crystalline (16BB)
Number of Cells	108(6x18)
Dimensions	1961x1134x30mm
Weight	27.6kg
Glass	Front Glass, 2mm AR coated heat strengthened glass Back Glass, 2mm heat strengthened glass (full black)
Frame	Silver(Black), Anodized Aluminum Alloy
Output Cables	4mm <sup>2</sup> (IEC), 12AWG(UL) +300mm/-200 (including connector) or Customized Length
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 / MC4 Compatible
Packaging	36 Pieces/Pallet, 864 pieces/40' container

Operating Conditions

Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Maximum Static Load, Front Side	5400Pa
Maximum Static Load, Back Side	2400Pa
Nominal Operating Cell Temperature	45±2°C
Bifaciality	80±5%

Temperature Coefficient

Temperature coefficient of Isc	+0.045%/°C
Temperature coefficient of Voc	-0.230%/°C
Temperature coefficient of Pmax	-0.290%/°C

Characteristics

