

BM9R-T48HDB

430-450W

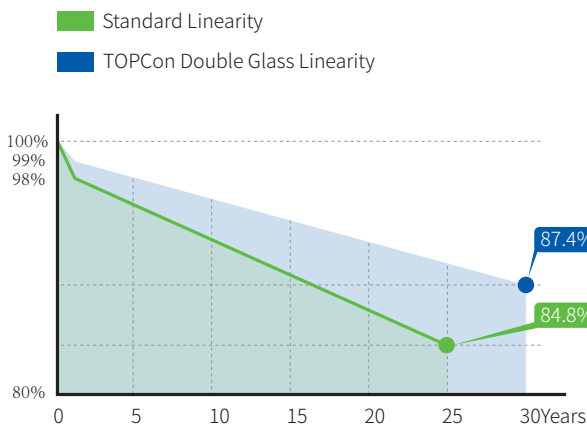
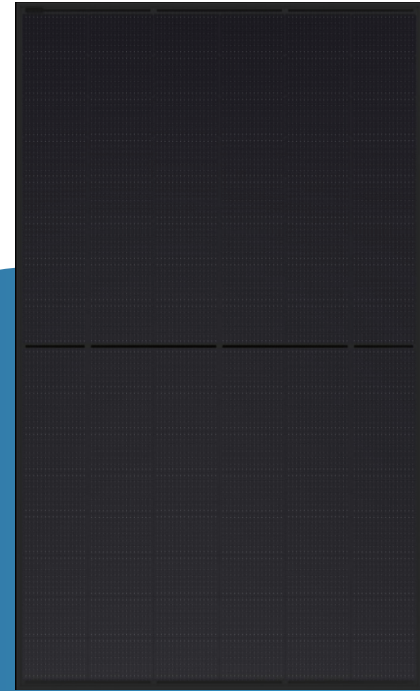
FOR
ROOFTOP

Maximum Power Output:

450W

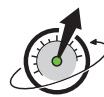
Maximum Module Efficiency:

22.52%



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

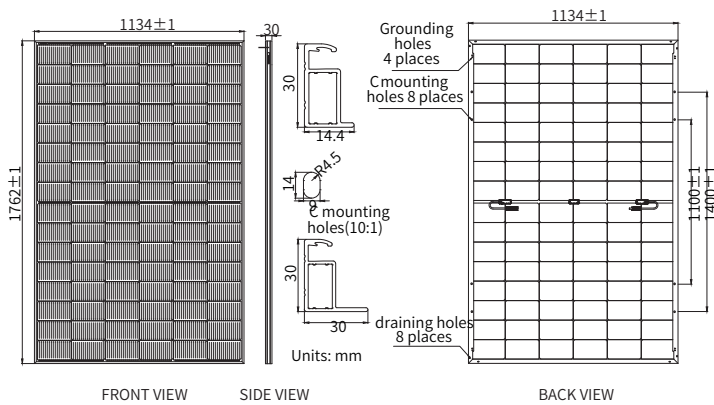
Full black design brings highly consistent appearance for rooftops.

Electric Characteristics

Module Type	BM9R-T48HDB-430		BM9R-T48HDB-435		BM9R-T48HDB-440		BM9R-T48HDB-445		BM9R-T48HDB-450	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power (Pmax)[W]	430	475	435	480	440	485	445	490	450	495
Open-Circuit Voltage (Voc)[V]	34.31	34.51	34.49	34.69	34.67	34.87	34.85	35.05	35.03	35.23
Short-Circuit Current (Isc)[A]	15.85	17.42	15.90	17.47	15.95	17.52	16.00	17.57	16.05	17.62
Maximum Power Voltage (Vmp)[V]	29.36	29.56	29.54	29.74	29.72	29.92	29.90	30.10	30.08	30.28
Maximum Power Current (Imp)[A]	14.65	16.07	14.73	16.14	14.81	16.21	14.89	16.28	14.97	16.35
Module Efficiency	21.52%		21.77%		22.02%		22.27%		22.52%	
Power Tolerance	0~+5W									

(STC: Irradiance 1000W/m², Cell temperature 25°C, Atmospheric quality AM 1.5G; BNPI: Rear side Irradiance 135W/m², Cell temperature 25°C, Atmospheric quality AM 1.5G, Wind speed 1m/s)

Engineering Drawing



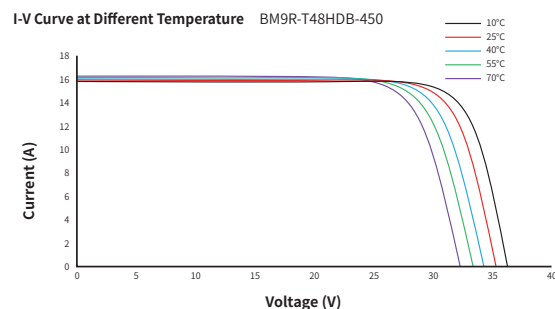
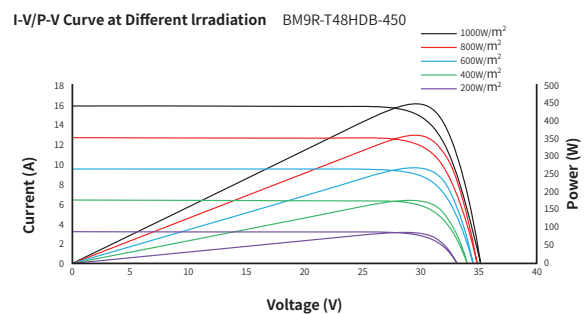
Product Specification

Cell Type	TOPCon Mono crystalline (16BB)
Number of Cells	96(6x16)
Dimensions	1762x1134x30mm
Weight	23.6kg
Glass	Front Glass, 2mm AR coated heat strengthened glass Back Glass, 2mm heat strengthened glass (full black)
Frame	Black, Anodized Aluminum Alloy
Output Cables	4mm ² (IEC), 12AWG(UL)
Junction Box	+300mm/-200 (including connector) or Customized Length IP68 Rated, 3 diodes
Connector	MC4-EVO2 / MC4 Compatible
Packaging	36 Pieces/Pallet, 936 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%

Characteristics



Temperature Coefficient

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