

EM-N48MBJ03

425-445

BIFACIAL MODULE WITH
DUALGLASS

N-TYPE

0~+5W

POSITIVE POWER TOLERANCE

IEC61215(2021), IEC61730(2023)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018: Occupational health and safety management systems

KEY FEATURES



Module Characteristics Advanced Cell Technology

Multi-busbar N-type TOPCon cell technology Maximum power output up to 440W N-type modules exhibit lower LID/LETID degradation.



Strict Internal Quality Control, High Reliability

Optimized cell production technology and advanced encapsulation materials reduce PID degradation probability by 100% EL double inspection and rigorous internal quality control



Building Integration

Module weight: 6.7 kg/m², significantly reducing roof load pressure.



Excellent Low-Light Performance

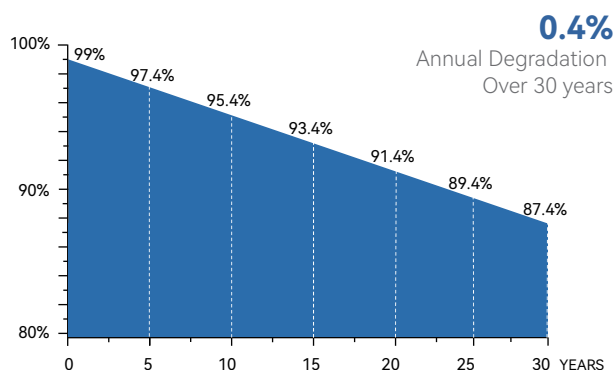
Superior power generation performance in low-light conditions, increasing energy yield.



Lightweight Design

Lightweight modules weigh only 2/3 of conventional double-glass modules, reducing manual handling costs.

LINEAR PERFORMANCE WARRANTY

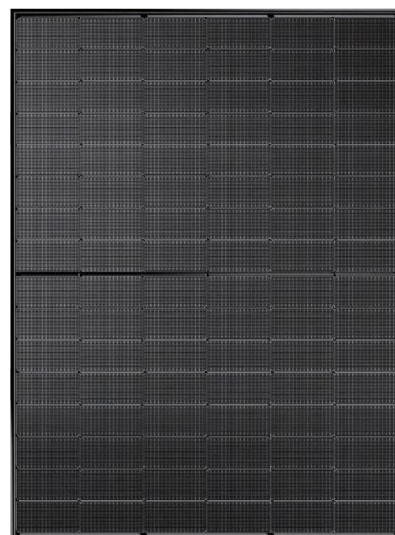


15
YEARS

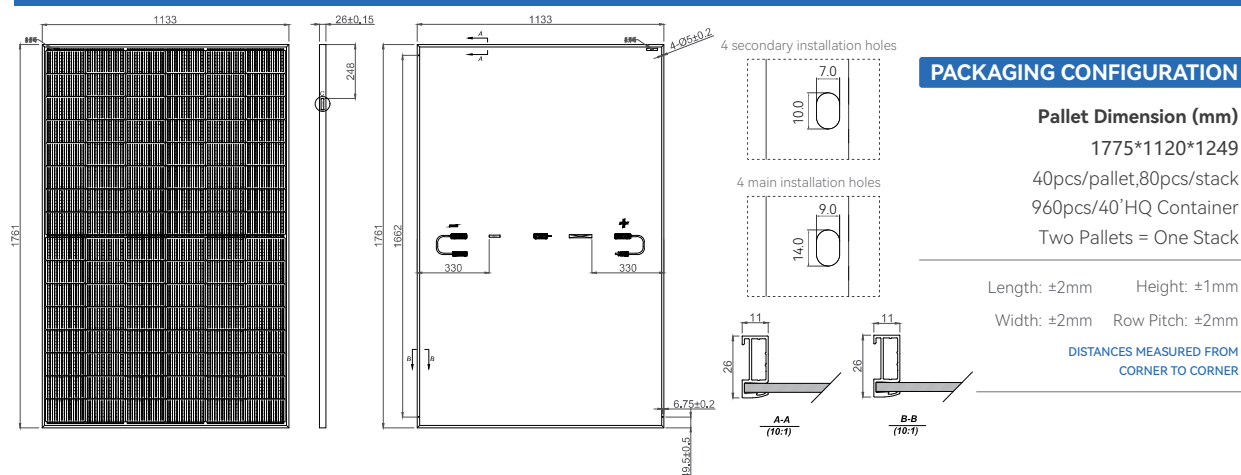
Year Product
Warranty

30
YEARS

Year Linear
Power Warranty



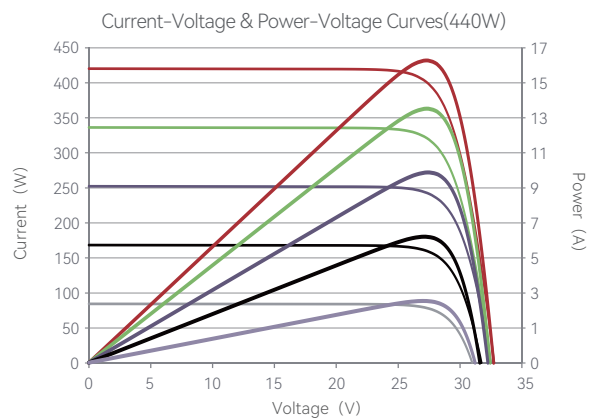
ASSEMBLY DRAWING



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	96 (6×16)
Dimensions	1761×1133×26mm
Weight	13.5kg
Front Glass	1.6mm, Anti-Reflection Coating
Back Glass	Black back sheet
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4,0mm2 (+): 300mm, (-): 200mm or Customized Length

Electrical Performance & Temperature Dependence



Module Type	EM-N48MBJ01425		EM-N48MBJ01430		EM-N48MBJ01435		EM-N48MBJ01440		EM-N48MBJ01445	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	425Wp	322Wp	430Wp	326Wp	435Wp	330Wp	440Wp	333Wp	445Wp	337 W
Maximum Power Voltage (Vmp)	29.02V	27.6V	29.20V	27.8V	29.38V	28.0V	29.56V	28.2V	29.73V	28.3V
Maximum Power Current (Imp)	14.65A	11.72A	14.73A	11.78A	14.81A	11.85A	14.89A	11.91A	14.97A	11.98A
Open-circuit Voltage (Voc)	34.24V	32.3V	34.54V	32.6V	34.83V	32.9V	35.12V	33.1V	35.41V	33.4V
Short-circuit Current (Isc)	15.85A	12.78A	15.90A	12.82A	15.95A	12.86A	16.00A	12.90A	16.05A	12.94A
Module Efficiency STC (%)	21.27%		21.52%		21.77%		22.02%		22.27%	
Operating temperature(°C)	-40°C~-+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+5W									
Temperature coefficients of Pmax	-0.29%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.045%/°C									
Nominal operating cell temperature (NOCT)	45°C±2°C									

STC: Irradiance : 1000W/m² Cell Temperature : 25°C AM=1.5

NOCT: Irradiance : 800W/m² Ambient Temperature : 20°C AM=1.5 Wind Speed 1m/s