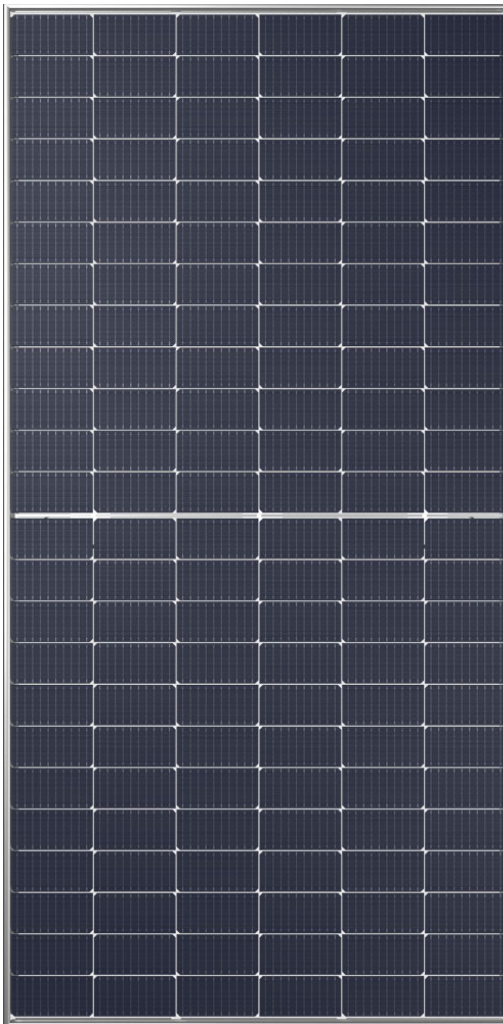


Beyondsun Solar Panels

BiDrive Max Series

TSBHM-144HVG



Nominal Power: 535-545Wp



Wind/Snow Load: 2400/5400Pa



Dimension: 2285x1134x35mm



Efficiency: Up to 21.32%

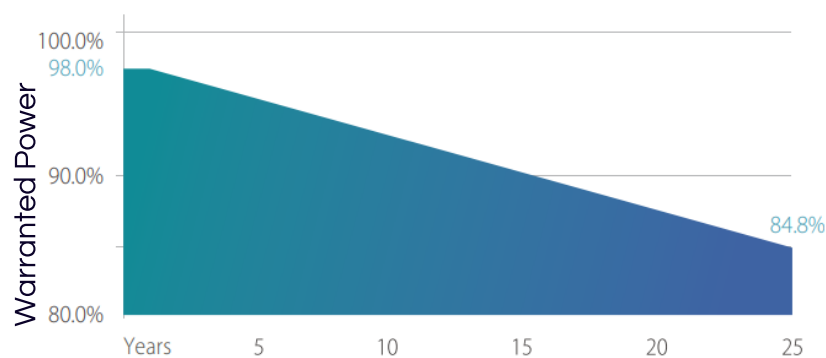


Maximum System Voltage: 1500 V



Weight: 32 kg

Industry Leading Warranty



Comprehensive Certificates



IEC 61215 / IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

OHSAS 18001: Occupational Health and Safety

30 Years

Linear
Performance
Warranty

12 Years

Product Material &
Workmanship
Warranty

LLOYD'S

Product &
Performance
Insured by
LLOYD'S



ELECTRICAL PARAMETERS @ STC*

Module Type	TSBHM535-144HVG		TSBHM540-144HVG		TSBHM545-144HVG	
	STC	NMOT	STC	NMOT	STC	NMOT
Test Condition	STC	NMOT	STC	NMOT	STC	NMOT
Max. Power Output Pmax (W)	535	402	540	406	545	409
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Max. Power Voltage Vmp (V)	41.45	38.59	41.61	38.74	41.77	38.89
Max. Power Current Imp (A)	12.91	10.41	12.98	10.47	13.05	10.53
Open Circuit Voltage Voc (V)	49.31	46.41	49.46	46.55	49.61	46.69
Short Circuit Current Isc (A)	13.79	11.12	13.86	11.18	13.93	11.23
Module Efficiency (%)	20.93%		21.13%		21.32%	

*STC (Standard Test Condition): Irradiance 1000W/m², Cell Temperature 25 °C, Air Mass 1.5

*NMOT (Nominal Module Operating Temperature), Irradiance of 800W/ m², Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

REAR SIDE POWER GAIN

5%	Maximum Power (Pmax)	562	567	572
	Module Efficiency STC (%)	21.98%	22.18%	22.39%
15%	Maximum Power (Pmax)	615	621	627
	Module Efficiency STC (%)	24.07%	24.30%	24.52%
25%	Maximum Power (Pmax)	669	675	681
	Module Efficiency STC (%)	26.16%	26.41%	26.65%

TEMPERATURE COEFFICIENTS

Temperature Coefficients of Pmp	-0.36%/°C
Temperature Coefficients of Voc	-0.29%/°C
Temperature Coefficients of Isc	+0.048 %/°C
NMOT	41°C±3°C

MECHANICAL PARAMETERS

Cell Type	Mono, 182x91mm
Cell Arrangement	144 pcs (2x(6x12))
Dimension (LxWxH)	2256x1133x35mm
Weight	32kg
Front Cover / Back Cover	2.0mm AR Coating Tempered Glass / 2.0mm Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 bypass diodes
Cable	4mm ² solar cable, 400mm (customizable)
Connector	MC4 compatible

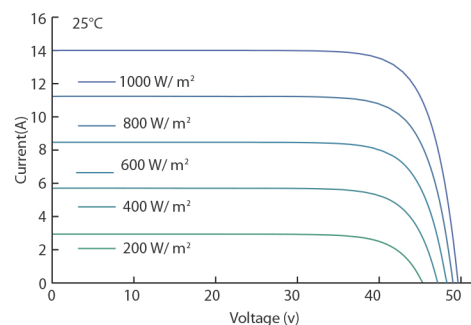
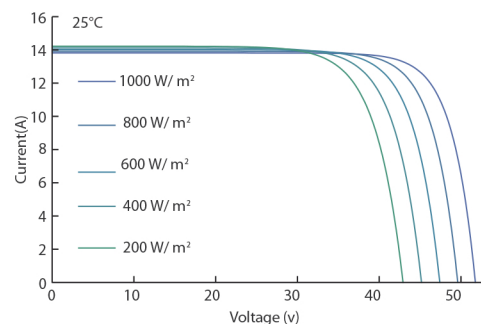
OPERATING PARAMETERS

Maximum System Voltage(V)	1500(DC)
Operating Temperature(°C)	-40~+85
Max. Wind Load / Snow Load(Pa)	2400/5400
Max. Over Current(A)	25
Application Class	Class A
Fire Rating	Class A

PACKAGE INFORMATION

Quantity / Pallet	30 pcs
Container 40'HQ	20 pallets, 600 pcs

I-V CURVES



TECHNICAL DRAWINGS

