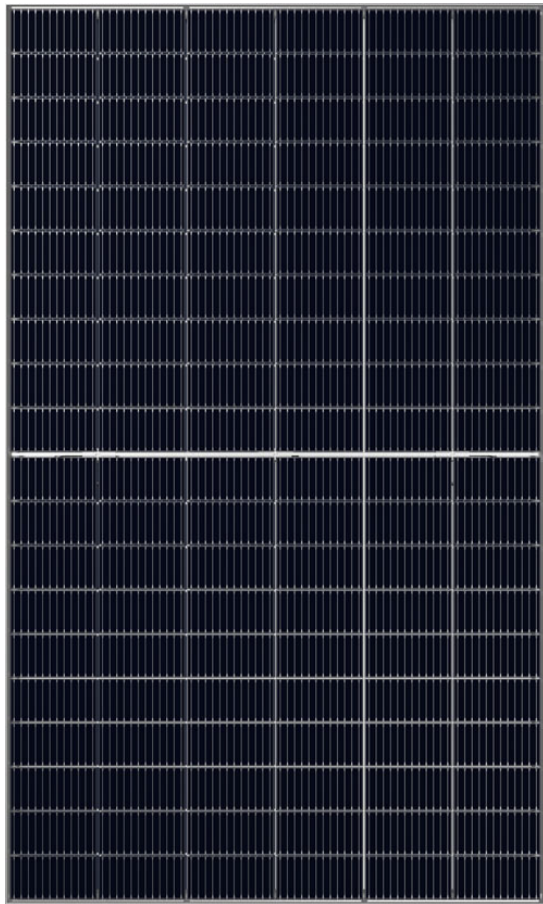


Beyondsun Solar Panels

BiDrive UltraMax Series

TSBHM-132HSG



Nominal Power: 645-655 Wp



Wind/Snow Load: 2400/5400Pa



Dimension: 2384x1303x35 mm



Efficiency: Up to 21.09%

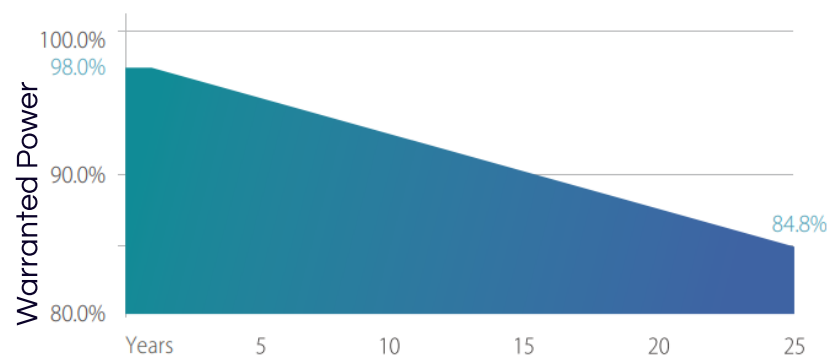


Maximum System Voltage: 1500 V



Weight: 38.7 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

Module Type	TSBHM645-132HSG		TSBHM650-132HSG		TSBHM655-132HSG	
	STC	NMOT	STC	NMOT	STC	NMOT
Test Condition	STC	NMOT	STC	NMOT	STC	NMOT
Max. Power Output Pmax (W)	645	484	650	488	655	492
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Max. Power Voltage Vmp (V)	37.72	35.10	37.93	35.32	38.13	35.50
Max. Power Current Imp (A)	17.10	13.79	17.14	13.82	17.18	13.86
Open Circuit Voltage Voc (V)	44.82	42.61	45.02	42.81	45.22	42.99
Short Circuit Current Isc (A)	18.34	14.79	18.38	14.83	18.42	14.86
Module Efficiency (%)	20.76%		20.92%		21.09%	

*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)	677	683	688
	Module Efficiency STC (%)	21.80%	21.97%	22.14%
15%	Maximum Power (Pmax)	742	748	753
	Module Efficiency STC (%)	23.88%	24.06%	24.25%
25%	Maximum Power (Pmax)	806	813	819
	Module Efficiency STC (%)	25.95%	26.16%	26.36%

TEMPERATURE COEFFICIENTS

Temperature Coefficients of Pmp	-0.36%/°C
Temperature Coefficients of Voc	-0.29%/°C
Temperature Coefficients of Isc	+0.048 %/°C
NMOT	42°C±3°C

MECHANICAL PARAMETERS

Cell Type	Mono, 210×105mm
Cell Arrangement	132 pcs 2×(6×11)
Dimension (L×W×H)	2384×1303×35mm
Weight	38.7kg
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 , +460mm, -340mm, or customizable
Connector	PV Connector

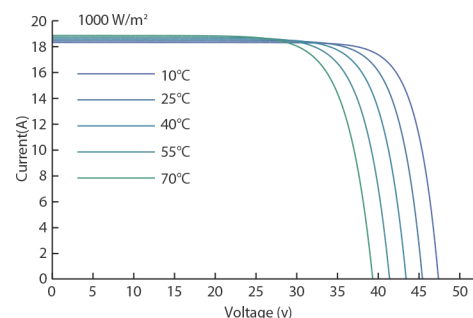
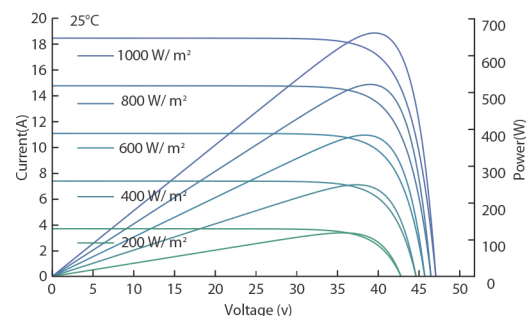
OPERATING PARAMETERS

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	31 pcs
Container 40'HQ	17 pallets, 527 pcs

I-V CURVES



TECHNICAL DRAWINGS

