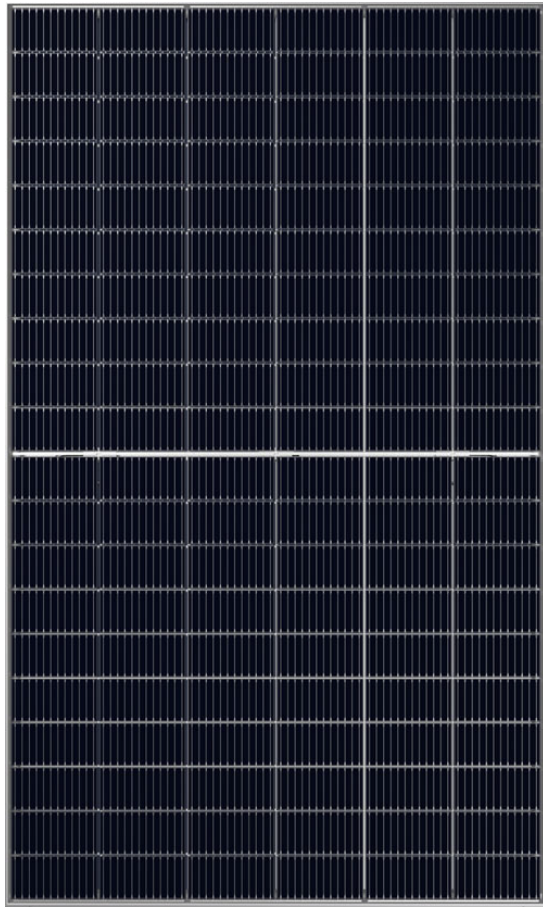


Beyondsun Solar Panels

BiDrive UltraMax Series

TSBHM-120HSG



Nominal Power: 590-600 Wp



Wind/Snow Load: 2400/5400Pa



Dimension: 2172x1303x35 mm



Efficiency: Up to 21.09%

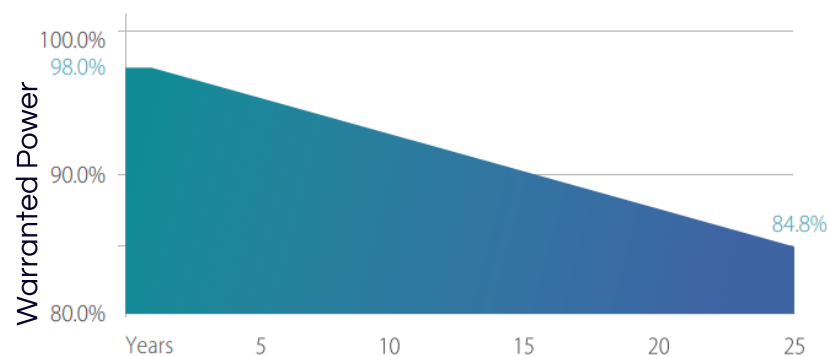


Maximum System Voltage: 1500 V



Weight: 35.3 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	TSBHM590-120HSG		TSBHM595-120HSG		TSBHM600-120HSG	
	STC	NMOT	STC	NMOT	STC	NMOT
Test Condition	STC	NMOT	STC	NMOT	STC	NMOT
Max. Power Output Pmax (W)	590	443	595	447	600	451
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Max. Power Voltage Vmp (V)	34.47	32.11	34.66	32.28	34.85	32.47
Max. Power Current Imp (A)	17.12	13.80	17.17	13.85	17.22	13.89
Open Circuit Voltage Voc (V)	40.93	38.91	41.11	39.08	41.29	39.25
Short Circuit Current Isc (A)	18.36	14.81	18.41	14.85	18.46	14.89
Module Efficiency (%)	20.85%		21.02%		21.20%	

*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)	620	625	630
	Module Efficiency STC (%)	21.89%	22.08%	22.26%
15%	Maximum Power (Pmax)	679	684	690
	Module Efficiency STC (%)	23.97%	24.18%	24.38%
25%	Maximum Power (Pmax)	738	744	750
	Module Efficiency STC (%)	26.06%	26.28%	26.50%

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	120pcs 2x(6x10)
Dimension (LxWxH)	2172×1303×35mm
Weight	35.3kg
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, 450mm (customizable)
Connector	PV Connector

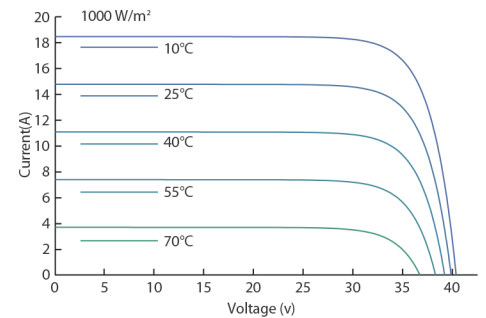
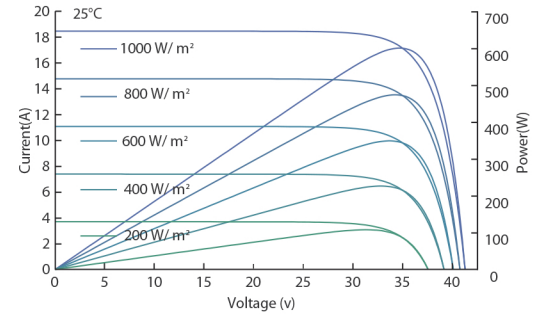
OPERATING PARAMETERS

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

