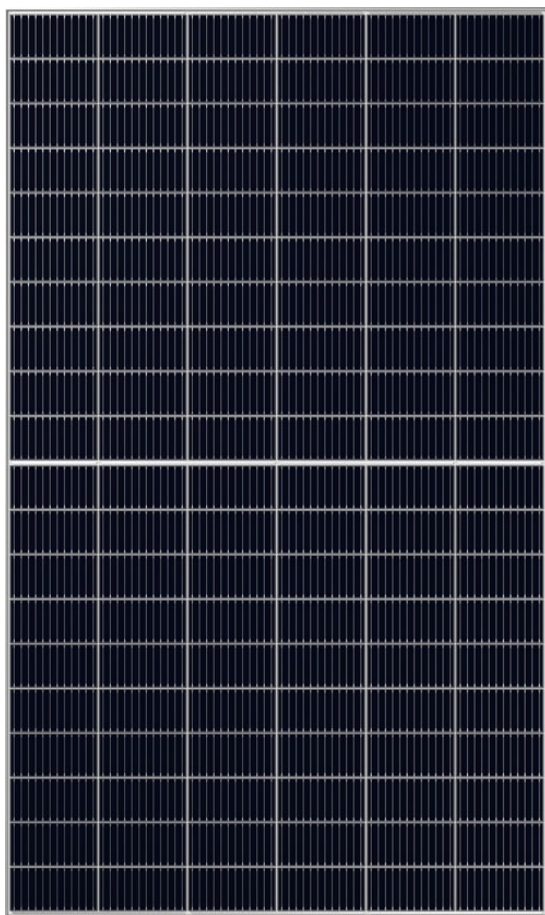


# Beyondsun Solar Panels

## DuDrive UltraMax Series

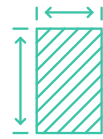
### TSHM-120HS



Nominal Power: 590-600 Wp



Wind/Snow Load: 2400/5400Pa



Dimension: 2172 x 1303 x 35mm



Efficiency: Up to 21.2%

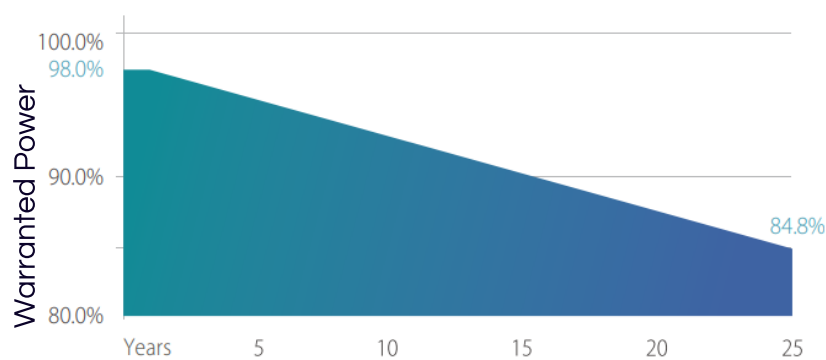


Maximum System Voltage: 1500 V



Weight: 31.5 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

**25 Years**

Linear Performance Warranty

**12 Years**

Product Material & Workmanship Warranty

**LLOYD'S**

Product & Performance Insured by LLOYD'S



## ELECTRICAL PARAMETERS @ STC\*

Module Type	TSHM590-120HS	TSHM595-120HS	TSHM600-120HS
Max. Power Output Pmax (W)	590	595	600
Power Tolerance	0~+3%	0~+3%	0~+3%
Max. Power Voltage Vmp (V)	34.47	34.66	34.85
Max. Power Current Imp (A)	17.12	17.17	17.22
Open Circuit Voltage Voc (V)	40.93	41.11	41.29
Short Circuit Current Isc (A)	18.36	18.41	18.46
Module Efficiency (%)	20.85%	21.02%	21.20%

\*STC (Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Air Mass 1.5

## ELECTRICAL PARAMETERS @ NMOT\*

	443	447	451
Max. Power Output Pmax (W)			
Max. Power Voltage Vmp (V)	32.11	32.28	32.47
Max. Power Current Imp (A)	13.80	13.85	13.89
Open Circuit Voltage Voc (V)	38.91	39.08	39.25
Short Circuit Current Isc (A)	14.81	14.85	14.89

\*NMOT (Nominal Module Operating Temperature), Irradiance of 800W/ m<sup>2</sup>; Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

## 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 2×(6×10)
Dimension (L×W×H)	2172×1303×35mm
Weight	31.5kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable	4mm <sup>2</sup>
Connector	PV Connector

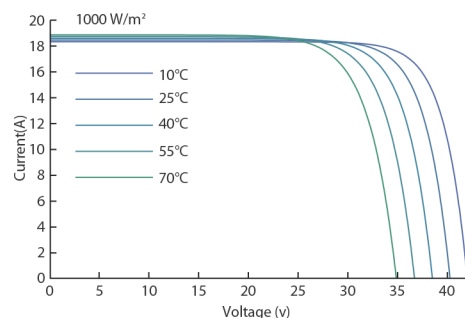
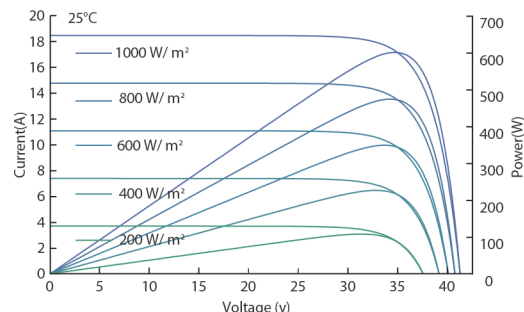
## OPERATING PARAMETERS

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

## PACKAGE INFORMATION

Quantity / Pallet	31 pcs
Container 40'HQ	17 pallets, 527 pcs

## I-V CURVES



## TECHNICAL DRAWINGS

