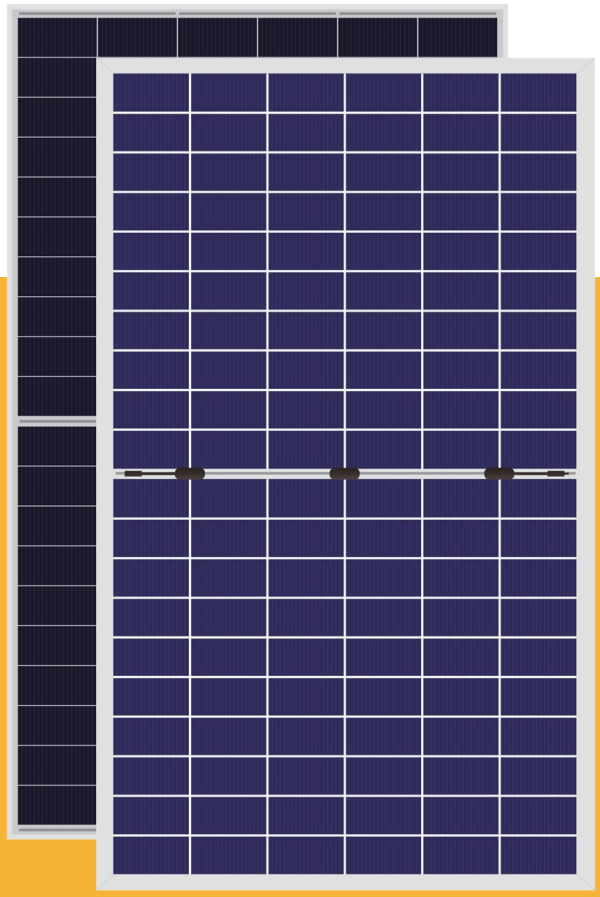
RecsunSolar

N-TOPCON
Tunnel Oxide Passivating Contact



620W-640W

G12 120HC 18BB DOUBLE-GLASS

Maximum Power Output	Maximum Module Efficiency	Power Output Tolerance
640W	**22.70%**	**0-+3%**

KEY FEATURES

High Efficiency
Leading module efficiency in industry, the highest efficiency up to 23.82%

Excellent Appearance and Performance
Bifacial solar cell, symmetrical design, low risk of micro-crack

High Reliability
Passed 3*IEC standard test, 15 years materials warranty, 30 years output linear power warranty

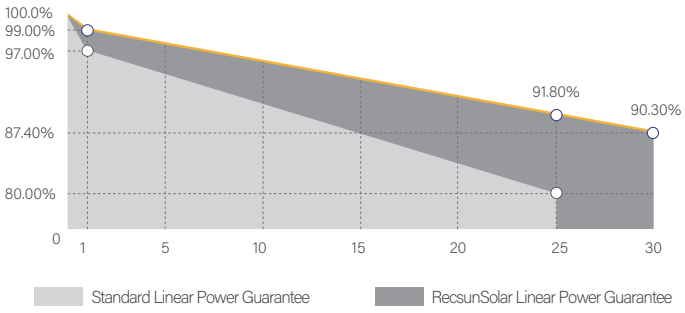
Excellent Rear Side Power Generation
Bifaciality is up to 80%, up to 30% more energy yield than conventional modules

Better low irradiance performance
Higher power output even under low irradiance environments like on cloudy or foggy days

Extensive Application Scenes
More extensive application scenes, such as snow field, vertical installation, high humidity, strong wind and desert

Product and Quality Certifications

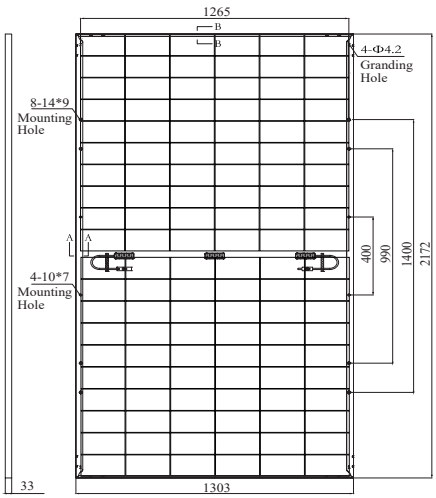
IEC 61215, IEC 61730
ISO 9001: Quality Management System
ISO 14001: Environment Management System
ISO 45001: Occupational Health and Safety Management System
IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test
IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test

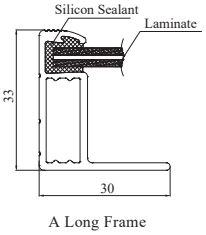


Leading Product and Power Warranty

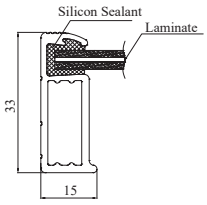
-1.00%1st-Year Degradation -0.30%Annual Degradation 15Materials and Workmanship Warranty 30Linear Power Warranty

ENGINEERING DRAWING (mm)



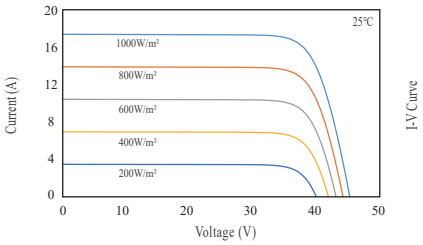


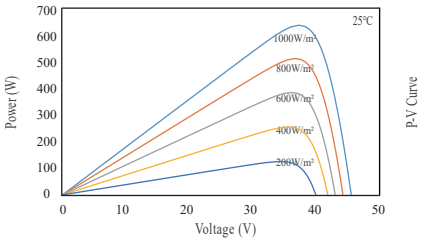
A Long Frame



B Short Frame

CHARACTERISTIC CURVES (630W)





ELECTRICAL PARAMETERS (Test Condition is Based on the Front Side)

Module Type	HJT620H120G12D		HJT625H120G12D		HJT630H120G12D		HJT635H120G12D		HJT640H120G12D	
Testing Condition	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Nominal Max. Power(Pmax/W)	620	468	625	472	630	476	635	480	640	484
Open Circuit Voltage(Voc/V)	42.90	40.60	43.10	40.80	43.30	41.00	43.50	41.20	43.70	41.40
Short Circuit Current(Isc/A)	18.31	14.77	18.36	14.81	18.41	14.85	18.46	14.89	18.51	14.93
Maximum Power Voltage(Vmp/V)	35.70	33.70	35.90	33.90	36.10	34.10	36.30	34.30	36.50	34.50
Maximun Power Current(Imp/A)	17.37	13.89	17.41	13.93	17.46	13.97	17.51	14.01	17.56	14.05
Efficiency(%)	21.90%		22.10%		22.30%		22.50%		22.70%	

STC: Irradiance = 1000 W/m², Cell Temperature = 25°C, AM = 1.5, Average efficiency reduction of 4.5% at 200W/m².
NOTC: Irradiance = 800 W/m², Ambient Temperature = 20°C, AM = 1.5, Wind Speed = 1 m/s.

MECHANICAL PARAMETERS

Cell Type	210*105mm, 120HC	Connector	MC4 Original/Compatible
Module Size&Weight	2172×1303×33mm, 35.5Kg	Junction Box	IP68, 3 Bypass Diodes
Glass	2.0mm AR Coated Heat Strengthened Glass	Frame	Anodized Aluminium Alloy(Sliver)
Backsheet	2.0mm Ultra-Clear Float Glass	Cable	4mm², Cable Length 300mm(customized)

TEMPERATURE COEFFICIENTS

Nominal Operating Cell Temperature	43°C(±2°C)	Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Pmax	-0.310%/°C	Temperature Coefficient of Isc	+0.040%/°C

BACKSIDE POWER GAIN 10% FOR REFERENCE

Module Frontside Power(W)	640	645	650	655	660
Nominal Max. Power(Pmax/W)	682	687.5	693	698.5	704
Open Circuit Voltage(Voc/V)	42.9	43.1	43.3	43.5	43.7
Short Circuit Current(Isc/A)	20.18	20.23	20.28	20.33	20.37
Max. Power Voltage(Vmp/V)	35.7	35.9	36.1	36.3	36.5
Max. Power Current(Imp/A)	19.10	19.15	19.20	19.24	19.29

OPERATING PARAMETERS

Max. System Voltage	DC1500V
Power Tolerance	0 - +3%
Operating Temperatue	-40°C - +85°C
Max. Fuse Rated Current	35A
Front Static Load	Snow 5400Pa, Wind 2400Pa
Packaging Data	33PCS/Pallet; 594PCS/40HQ

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