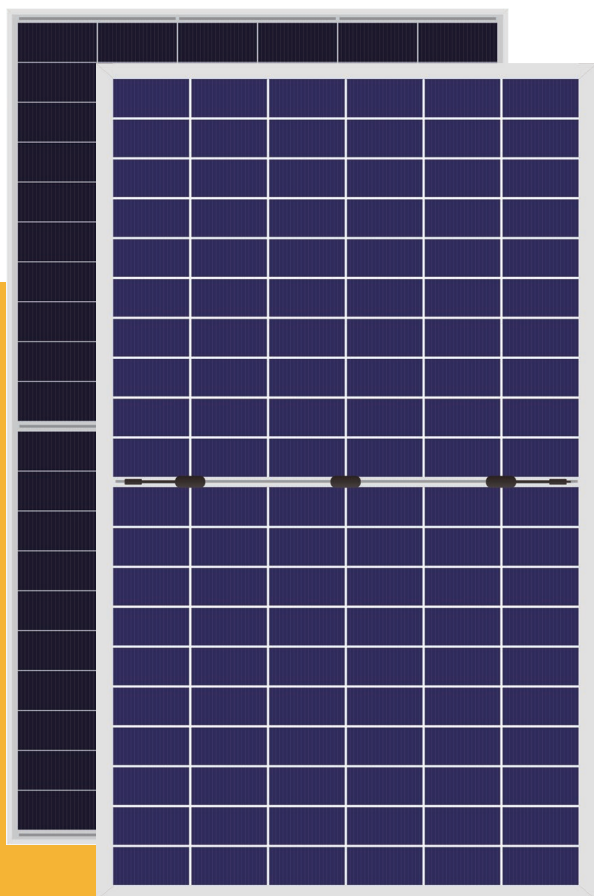




640W-660W

G12 BIFACIAL DOUBLE-GLASS

KEY FEATURES



HJT 3.0 Technology

Combining gettering process and single-side $\mu\text{C-Si}$ technology to ensure higher efficiency and power.



Up to 95% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.



-0.26%/°C Pmax Temperature Coefficient

More stable power generation performance and even better in hot climate.



Sealing with PIB Based Sealant

Stronger water resistance, greater air impermeability to extend module lifespan.



SMBB Design with Half-Cut Technology

Shorter current transmission distance, less resistive loss and higher cell efficiency.



Higher Reliability

Industrial leading product and performance warranty, ensure modules' consistent outstanding performance.

Maximum
Power Output

660W

Maximum
Module Efficiency

23.82%

Power Output
Tolerance

0-+3%

Product and Quality Certifications

IEC 61215, IEC 61730

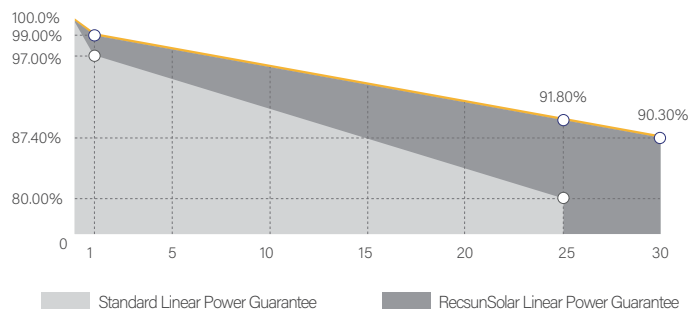
ISO 9001: Quality Management System

ISO 14001: Environment Management System

ISO 45001: Occupational Health and Safety Management System

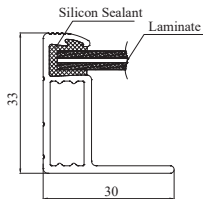
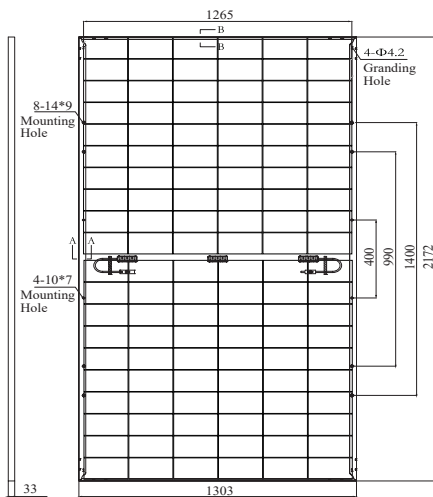
IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test

IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test

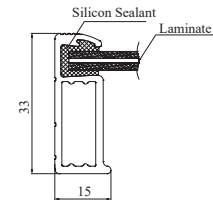


Leading Product and Power Warranty

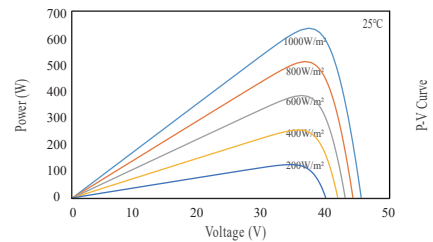
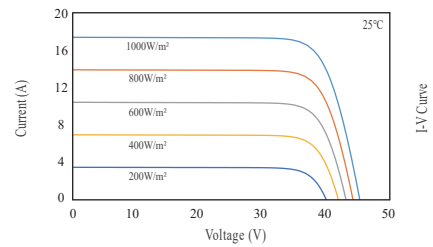
-1.00% 1st-Year Degradation -0.30% Annual Degradation 15 Years Materials and Workmanship Warranty 30 Years Linear Power Warranty



A Long Frame



B Short Frame



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

Module Type	HJT640H120G12D		HJT645H120G12D		HJT650H120G12D		HJT655H120G12D		HJT660H120G12D	
Testing Condition	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Nominal Max. Power(Pmax/W)	640	488	645	493	650	498	655	503	660	508
Open Circuit Voltage(Voc/V)	45.65	43.57	45.82	43.74	45.99	43.91	46.16	44.08	46.33	44.25
Short Circuit Current(Isc/A)	17.49	13.98	17.55	14.04	17.61	14.10	17.67	14.16	17.75	14.22
Maximum Power Voltage(Vmp/V)	38.35	36.61	38.51	36.77	38.67	36.93	38.83	37.09	38.99	37.25
Maximum Power Current(Imp/A)	16.69	13.33	16.75	13.40	16.81	13.47	16.87	13.52	16.93	13.59
Efficiency(%)	22.61%		22.79%		22.97%		23.15%		23.33%	

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(Silver)	
Backsheet	2.0mm Ultra-Clear Float Glass		Cable	4mm ² , 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)	704.0	709.5	715.0	720.5	726.0
Open Circuit Voltage(Voc/V)	45.65	45.82	45.99	46.16	46.33
Short Circuit Current(Isc/A)	19.39	19.46	19.53	19.60	19.67
Max. Power Voltage(Vmp/V)	38.35	38.51	38.67	38.83	38.99
Max. Power Current(Imp/A)	18.36	18.42	18.49	18.56	18.62

OPERATING PARAMETERS

Max. System Voltage	DC1500V	
Power Tolerance	0 - +3%	
Operating Temperature	-40°C - +85°C	
Max. Fuse Rated Current	30	A
Front Static Load	Snow 5400Pa, Wind 2400Pa	
Packaging Data	33PCS/Pallet; 594PCS/40HQ	