

## DEEP BLUE 3.0

**Mono**

605W MBB Bifacial Mono PERC  
Half-cell Double Glass Module  
단결정 하프셀 양면 발전 모듈  
JAM78D30 580-605/MB Series

### Introduction

단결정 11 line Bus-bar 양면 발전 셀을 Half-cut 가공 및 전·후면 유리 적용으로 전면뿐만 아니라 후면에 입사된 빛을 전기에너지로 변환합니다. 이로 인해 더 높은 출력을 제공하며, 더 낮은 온도계수와 음영에서의 손실 저감 효과 및 기계적 부하에 따른 내구성 향상을 확인하실 수 있습니다.



동일 사이즈 대비 고출력



보다 나은 내구성  
안정적인 발전 제공



음영에 의한 손실 최소화

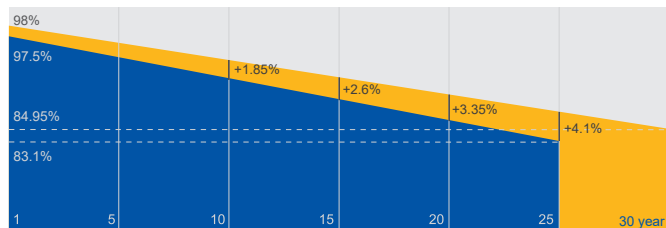


우수한 온도 계수

### Superior Warranty

- 12-year product warranty
- 30-year linear power output warranty

0.45% Annual Degradation  
Over 30 years



■ Bifacial double glass module linear power warranty

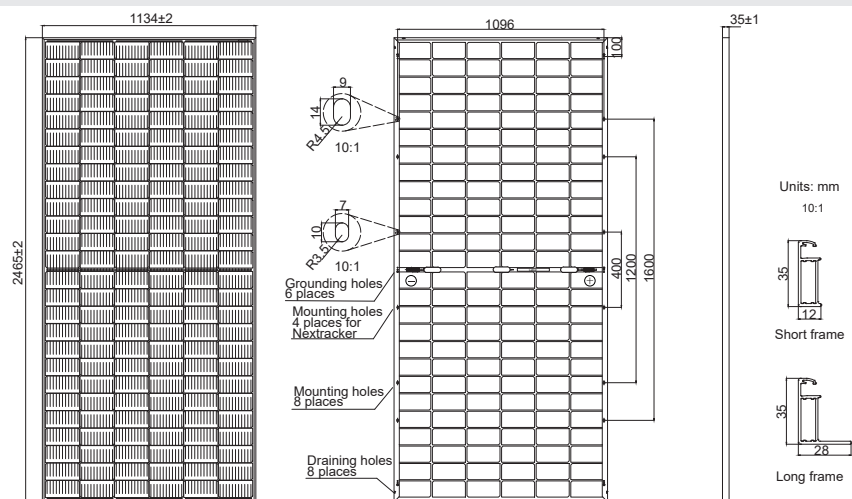
■ Standard module linear power warranty

### Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval



## MECHANICAL DIAGRAM



Remark: customized frame color and cable length available upon request

## SPECIFICATIONS

Cell	Mono
Weight	33.4kg±3%
Dimensions	2465±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	156(6×26)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-35
Cable Length (Including Connector)	Landscape:1500mm(+)/1500mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	31pcs/Pallet, 496pcs/40HQ Container

### ELECTRICAL PARAMETERS AT STC

TYPE	JAM78D30 -580/MB	JAM78D30 -585/MB	JAM78D30 -590/MB	JAM78D30 -595/MB	JAM78D30 -600/MB	JAM78D30 -605/MB
Rated Maximum Power(Pmax) [W]	580	585	590	595	600	605
Open Circuit Voltage(Voc) [V]	53.11	53.20	53.30	53.40	53.50	53.61
Maximum Power Voltage(Vmp) [V]	44.35	44.56	44.80	45.05	45.30	45.53
Short Circuit Current(Isc) [A]	13.84	13.88	13.93	13.98	14.03	14.08
Maximum Power Current(Imp) [A]	13.08	13.13	13.17	13.21	13.25	13.29
Module Efficiency [%]	20.7	20.9	21.1	21.3	21.5	21.6
Power Tolerance	0~+5W					
Temperature Coefficient of Isc( $\alpha_{Isc}$ )	+0.045%/°C					
Temperature Coefficient of Voc( $\beta_{Voc}$ )	-0.275%/°C					
Temperature Coefficient of Pmax( $\gamma_{Pmp}$ )	-0.350%/°C					
STC	Irradiance 1000W/m², cell temperature 25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

### ELECTRICAL CHARACTERISTICS WITH 5% BACKSIDE POWER GAIN

## OPERATING CONDITIONS

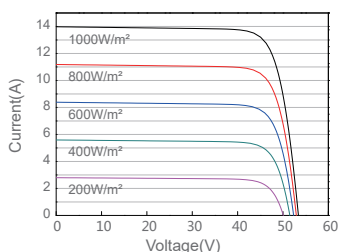
TYPE	JAM78D30 -580/MB	JAM78D30 -585/MB	JAM78D30 -590/MB	JAM78D30 -595/MB	JAM78D30 -600/MB	JAM78D30 -605/MB	Maximum System Voltage	1500V DC
Rated Max Power(Pmax) [W]	608	614	619	624	629	635	Operating Temperature	-40°C~+85°C
Open Circuit Voltage(Voc) [V]	53.14	53.23	53.33	53.43	53.53	53.64	Maximum Series Fuse Rating	30A
Max Power Voltage(Vmp) [V]	44.34	44.55	44.80	45.04	45.28	45.52	Maximum Static Load,Front* Maximum Static Load,Back*	5400Pa(112 lb/ft²) 2400Pa(50 lb/ft²)
Short Circuit Current(Isc) [A]	14.52	14.56	14.61	14.67	14.72	14.77	NOCT	45±2°C
Max Power Current(Imp) [A]	13.72	13.77	13.82	13.86	13.90	13.94	Bifaciality**	70%±10%
Backside power gain 15.0% (15.0% Total Efficiency, Maximum) 15.0% (15.0% Total Efficiency, Maximum)	Standard Front Side 1000W/m², 1000W/m²		5%		Standard Back Side 1000W/m², 1000W/m²		Fire Performance	UL Type 29

\*For NexTracker installations, Maximum Static Load, Front is 1800Pa while Maximum Static Load, Back is 1800Pa.

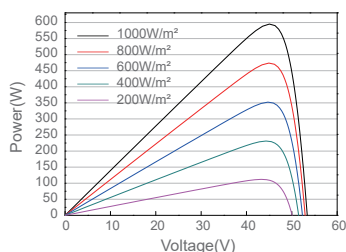
<sup>\*\*</sup>Bifaciality= $P_{\text{max, rear}}/\text{Rated } P_{\text{max, front}}$ 

## CHARACTERISTICS

Current-Voltage Curve JAM78D30-595/MB



Power-Voltage Curve JAM78D30-595/MB



Current-Voltage Curve JAM78D30-595/MB

