

## DEEP BLUE 3.0

Mono

550W MBB Bifacial Mono PERC  
Half-cell Double Glass Module  
단결정 하프셀 양면발전 모듈  
JAM72D30 525-550/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 확인 하실 수 있습니다.



동일 사이즈 대비 고출력



보다 나은 내구성\_안정적인 발전 제공



음영에 의한 손실 최소화

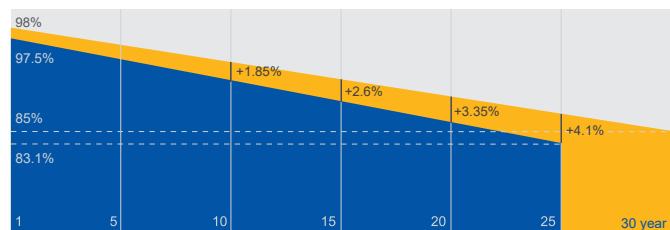


우수한 온도 계수

### 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

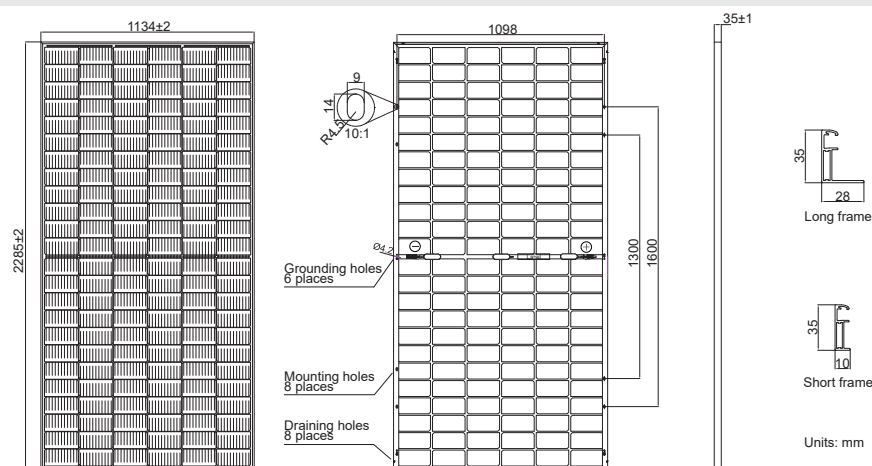
### Comprehensive Certificates

- 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 DIAGRAMS

## SPECIFICATIONS



Cell	Mono
Weight	31.6kg±3%
Dimensions	2285±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-35
Cable Length (Including Connector)	Portrait:300mm(+)/400mm(-); Landscape:1300mm(+)/1300mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	31pcs/Pallet, 620pcs/40ft Container

Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D30 -525/MB	JAM72D30 -530/MB	JAM72D30 -535/MB	JAM72D30 -540/MB	JAM72D30 -545/MB	JAM72D30 -550/MB
Rated Maximum Power(P <sub>max</sub> ) [W]	525	530	535	540	545	550
Open Circuit Voltage(V <sub>oc</sub> ) [V]	49.15	49.30	49.45	49.60	49.75	49.90
Maximum Power Voltage(V <sub>mp</sub> ) [V]	41.15	41.31	41.47	41.64	41.80	41.96
Short Circuit Current(I <sub>sc</sub> ) [A]	13.65	13.72	13.79	13.86	13.93	14.00
Maximum Power Current(I <sub>mp</sub> ) [A]	12.76	12.83	12.90	12.97	13.04	13.11
Module Efficiency [%]	20.3	20.5	20.6	20.8	21.0	21.2
Power Tolerance	0~+5W					
Temperature Coefficient of I <sub>sc</sub> (α <sub>Isc</sub> )	+0.045%/°C					
Temperature Coefficient of V <sub>oc</sub> (β <sub>Voc</sub> )	-0.275%/°C					
Temperature Coefficient of P <sub>max</sub> (γ <sub>Pmp</sub> )	-0.350%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G					

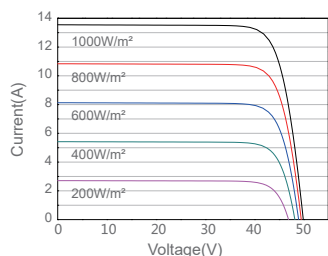
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER RANGES  
(REFERENCE TO 10% SOLAR ILLUMINANCE RATIO)

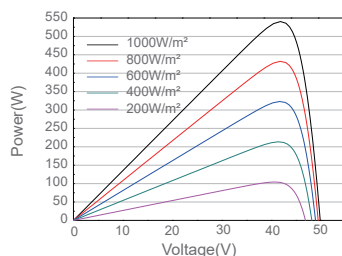
TYPE	JAM72D30 -525/MB	JAM72D30 -530/MB	JAM72D30 -535/MB	JAM72D30 -540/MB	JAM72D30 -545/MB	JAM72D30 -550/MB	OPERATING CONDITIONS	
Rated Max Power(P <sub>max</sub> ) [W]	562	567	572	578	583	589	Maximum System Voltage	1500V DC
Open Circuit Voltage(V <sub>oc</sub> ) [V]	49.54	49.67	49.80	49.93	50.03	50.21	Operating Temperature	-40°C~+85°C
Max Power Voltage(V <sub>mp</sub> ) [V]	41.53	41.77	41.99	42.24	42.43	42.67	Maximum Series Fuse Rating	30A
Short Circuit Current(I <sub>sc</sub> ) [A]	14.34	14.39	14.45	14.50	14.56	14.63	Maximum Static Load, Front* Maximum Static Load, Back*	5400Pa(112 lb/ft <sup>2</sup> ) 2400Pa(50 lb/ft <sup>2</sup> )
Max Power Current(I <sub>mp</sub> ) [A]	13.52	13.58	13.63	13.69	13.74	13.79	NOCT	45±2°C
**Bifaciality=P <sub>max, rear</sub> /Rated P <sub>max, front</sub>							Bifaciality**	70%±10%
							Fire Performance	UL Type 29

## CHARACTERISTICS

Current-Voltage Curve JAM72D30-540/MB



Power-Voltage Curve JAM72D30-540/MB



Current-Voltage Curve JAM72D30-540/MB

