Harvest the Sunshine

455W

JA SOLAR

JAM54D41 LR

Black Modules
n-type Double Glass Monofacial Modules

Premium Cells

n-Bycium+ 16BB

MBB Half-Cell Technology

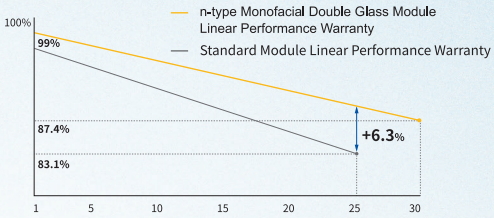
26%

Up To

Cell Conversion Efficiency

Premium Modules

- Higher power generation better LCOE
- n-type with very Lower LID
- Better Temperature Coefficient
- Better low irradiance response



1% 1st-year Degradation 0.4% Annual Degradation Over 30 years

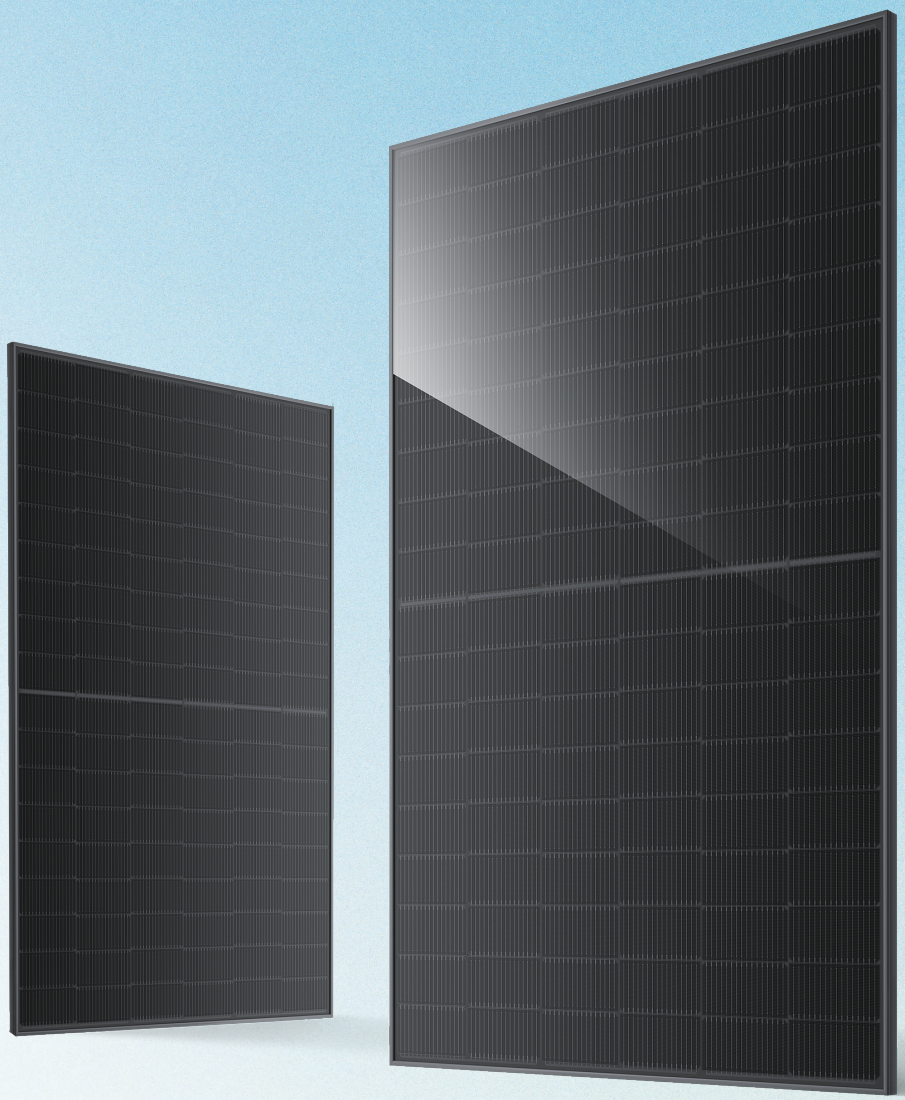
25 25-year product warranty

30 30-year linear power output warranty

*Remark: The performance warranty applies at STC condition.

Comprehensive Certificates

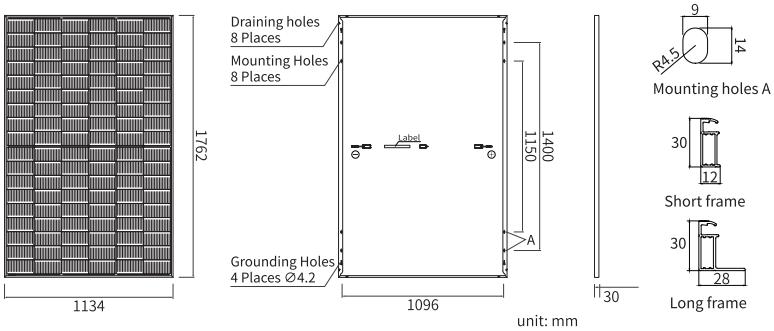
- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM54D41 LR n-type Double Glass Monofacial Modules

DEEP BLUE 4.0 Pro



MECHANICAL PARAMETERS

Cell	Mono
Weight	22kg
Dimensions	1762mm×1134mm×30mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	108(6×18)
Junction Box	IP68, 3diodes
Connector	Stäubli PV-KST4-EVO2A/xy,PV-KBT4-EVO2A/xy QC Solar QC4.10-351/ QC4.10-35
Cable Length (Including Connector)	Portrait: 400mm(+) /200mm(-) Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	1.6mm/1.6mm
Packaging Configuration	36pcs/Pallet, 936pcs/40HQ Container
Country of Manufacturer	China/Vietnam

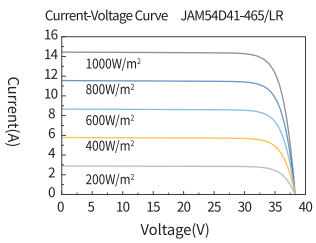
Remark: customized frame color and cable length available upon request

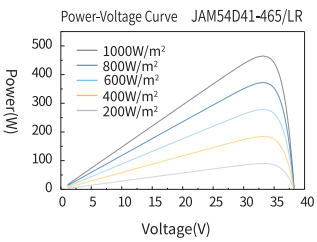
ELECTRICAL PARAMETERS AT STC

TYPE	JAM54D41 -455/LR	JAM54D41 -460/LR	JAM54D41 -465/LR	JAM54D41 -470/LR
Rated Maximum Power(Pmax) [W]	455	460	465	470
Open Circuit Voltage (Voc) [V]	40.50	40.60	40.70	40.85
Maximum Power Voltage(Vmp) [V]	33.33	33.68	34.02	34.35
Short Circuit Current(Isc) [A]	14.42	14.43	14.44	14.50
Maximum Power Current(Imp) [A]	13.65	13.66	13.67	13.68
Module Efficiency [%]	22.8	23.0	23.3	23.5
Power Sorting Tolerance	-5~+10W			
Temperature Coefficient of Isc(α_Isc)	+0.045%/°C			
Temperature Coefficient of Voc (β_Voc)	-0.250%/°C			
Temperature Coefficient of Pmax(γ_Pmp)	-0.290%/°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.
Measurement torlerance at STC :Pmax±3%, Voc±3% and Isc±5%.

CHARACTERISTICS





ELECTRICAL PARAMETERS With Low Irradiance Of 200W/m²

TYPE	JAM54D41 -455/LR	JAM54D41 -460/LR	JAM54D41 -465/LR	JAM54D41 -470LR
Rated Max Power(Pmax) [W]	88.21	89.26	90.30	91.20
Open Circuit Voltage(Voc) [V]	37.96	38.19	38.29	38.44
Max Power Voltage(Vmp) [V]	32.85	33.00	33.14	33.26
Short Circuit Current(Isc) [A]	2.88	2.89	2.89	2.90
Max Power Current(Imp) [A]	2.69	2.71	2.73	2.74
Low Irradiance	(200±2) W/m², module at (25±2) °C			

OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature*	-40°C~+70°C
Maximum Series Fuse Rating**	25A
Maximum Static Load, Front**	3600Pa,1.5
Maximum Static Load, Back	1600Pa,1.5
NOCT	45±2°C
Safety Class	Class II
Fire Performance	UL Type 38/Class C

*PV module 98th percentile operating temperature : 70°C
**3600Pa/1600Pa refers to the design load,1.5 refers to safety factors

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Specifications subject to technical changes and tests.
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