Harvest the Sunshine

455W

JA SOLAR

JAM54D41 LR

Black Modules
n-type Double Glass Monofacial Modules

Premium Cells

n-Bycium+ 16BB

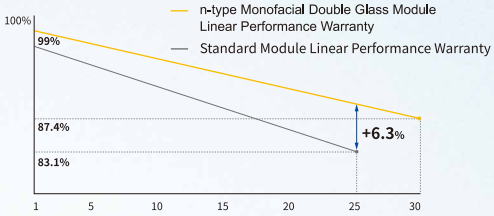
MBB Half-Cell Technology

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

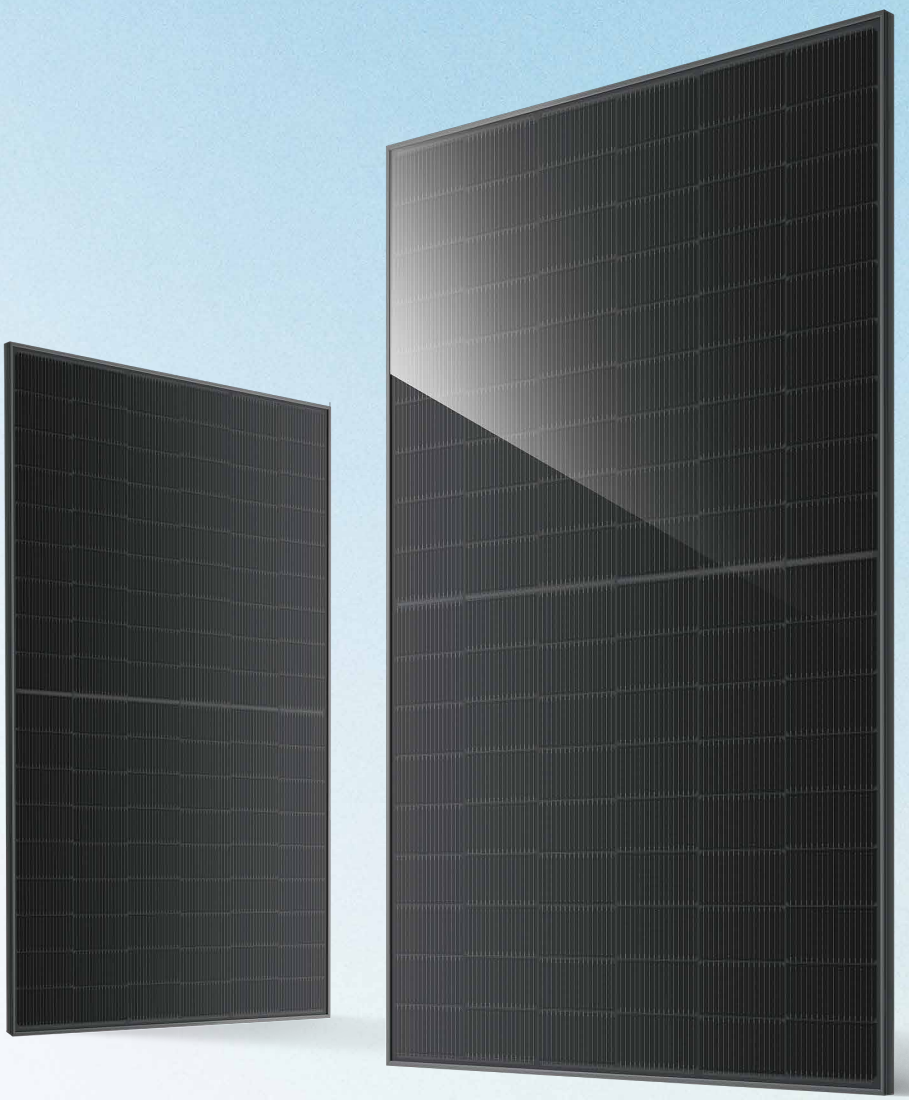
15 15-year product warranty

30 30-year linear power output warranty

*Remark: The performance warranty applies at STC condition.

Comprehensive Certificates

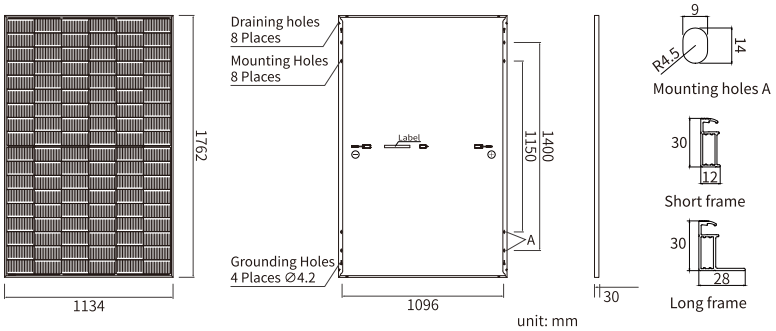
- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



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

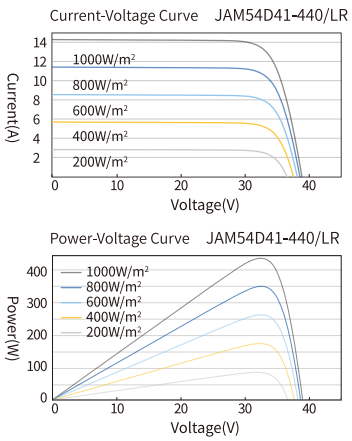
TYPE	JAM54D41 -440/LR	JAM54D41 -445/LR	JAM54D41 -450/LR	JAM54D41 -455/LR
Rated Maximum Power(Pmax) [W]	440	445	450	455
Open Circuit Voltage (Voc) [V]	38.90	39.10	40.30	40.50
Maximum Power Voltage(Vmp) [V]	32.47	32.65	32.99	33.33
Short Circuit Current(Isc) [A]	14.31	14.40	14.41	14.42
Maximum Power Current(Imp) [A]	13.55	13.63	13.64	13.65
Module Efficiency [%]	22.0	22.3	22.5	22.8
Power 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%.

ELECTRICAL PARAMETERS AT NOCT And Low Irradiance Of 200W/m²

TYPE	JAM54D41 -440/LR		JAM54D41 -445/LR		JAM54D41 -450/LR		JAM54D41 -455/LR	
	10%	200W/m²	10%	200W/m²	10%	200W/m²	10%	200W/m²
Rated Max Power(Pmax) [W]	333	85	337	86	341	87	344	88
Open Circuit Voltage(Voc) [V]	36.81	36.60	37.00	36.79	38.14	37.70	38.33	37.95
Max Power Voltage(Vmp) [V]	30.73	31.65	30.89	31.94	31.22	32.22	31.54	32.51
Short Circuit Current(Isc) [A]	11.45	2.86	11.52	2.88	11.53	2.88	11.54	2.88
Max Power Current(Imp) [A]	10.84	2.69	10.90	2.70	10.91	2.71	10.92	2.71
NOCT	Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G							
Low Irradiance	(200±2) W/m² ,module at (25±2) °C							

CHARACTERISTICS



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

JA SOLAR

Headquarters JA Solar Technology Co., Ltd.
No. 8 Building, Nuode Center, No.1 Courtyard, East Auto Museum Road, Fengtai District, Beijing
Tel: +86 10 6361 1888 Fax: +86 10 6361 1999
E-mail: sales@jasolar.com marketing@jasolar.com www.jasolar.com

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