Harvest the Sunshine

475W

JA SOLAR

JAM54D40 LR n-type Double Glass Monofacial Modules

Premium Cells

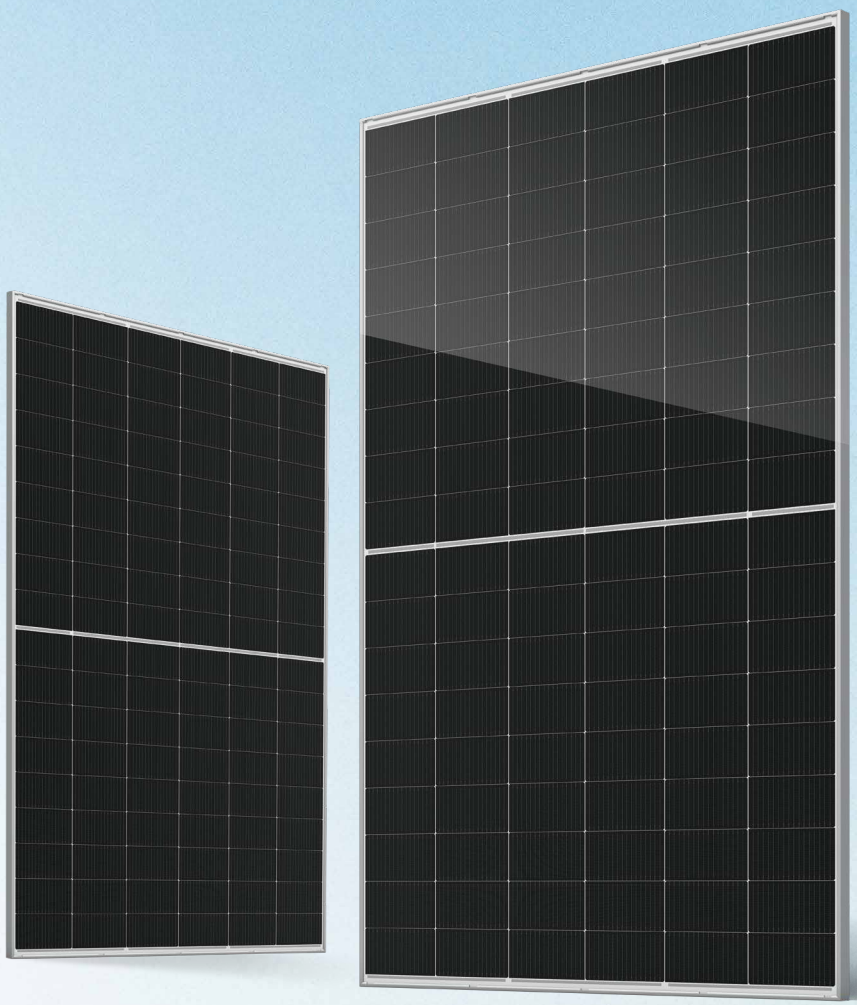
n-Bycium+ 16BB

MBB Half-Cell Technology

26%

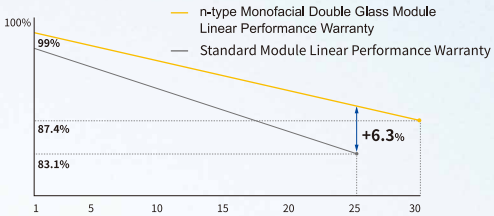
Up To

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

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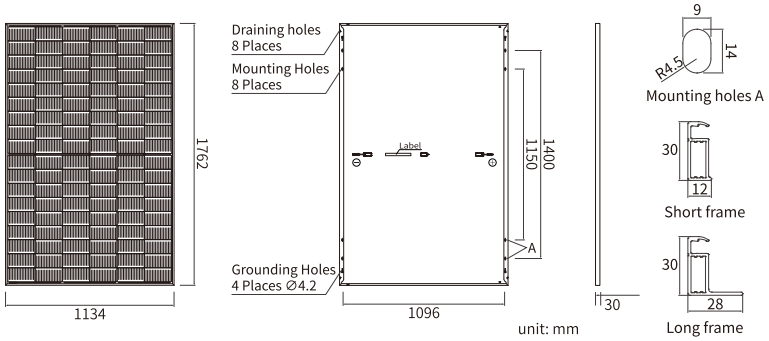
DEEP BLUE 4.0 Pro



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

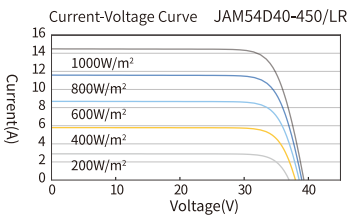
Remark: customized frame color and cable length available upon request

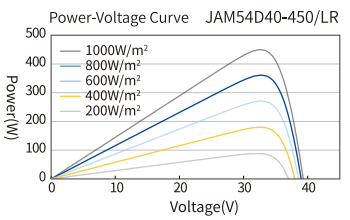
ELECTRICAL PARAMETERS AT STC

TYPE	JAM54D40 -450/LR	JAM54D40 -455/LR	JAM54D40 -460/LR	JAM54D40 -465/LR	JAM54D40 -470/LR	JAM54D40 -475/LR
Rated Maximum Power(Pmax) [W]	450	455	460	465	470	475
Open Circuit Voltage (Voc) [V]	39.30	39.50	39.70	40.20	40.40	40.55
Maximum Power Voltage(Vmp) [V]	32.82	33.00	33.17	33.50	33.84	34.18
Short Circuit Current(Isc) [A]	14.48	14.56	14.64	14.65	14.66	14.67
Maximum Power Current(Imp) [A]	13.71	13.79	13.87	13.88	13.89	13.90
Module Efficiency [%]	22.5	22.8	23.0	23.3	23.5	23.8
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%.

CHARACTERISTICS





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

TYPE	JAM54D40 -450/LR		JAM54D40 -455/LR		JAM54D40 -460/LR		JAM54D40 -465/LR		JAM54D40 -470/LR		JAM54D40 -475/LR	
	10%	200W/m²	10%	200W/m²	10%	200W/m²	10%	200W/m²	10%	200W/m²	10%	200W/m²
Rated Max Power(Pmax) [W]	341	87	344	88	348	89	352	90	356	91	360	92
Open Circuit Voltage(Voc) [V]	37.19	36.96	37.37	37.16	37.57	37.35	38.04	37.82	38.23	38.01	38.37	38.16
Max Power Voltage(Vmp) [V]	31.06	31.96	31.22	32.13	31.38	32.31	31.68	32.60	32.00	32.90	32.31	33.05
Short Circuit Current(Isc) [A]	11.58	2.90	11.65	2.91	11.71	2.93	11.72	2.93	11.73	2.93	11.74	2.93
Max Power Current(Imp) [A]	10.97	2.73	11.03	2.75	11.10	2.76	11.11	2.77	11.12	2.77	11.13	2.79
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											

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	Class C

*PV module 98th percentile operating temperature : 70°C

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