Harvest the Sunshine

490W

JA SOLAR

JAM48D50 LR n-type Double Glass Monofacial Modules

DEEP BLUE 5.0 Intelligent · Quality · Evolution

Premium Modules

Higher Power Output

Bycium+ 5.0 Cell Technology

Superior Full-Screen Design

Enhanced Reliability

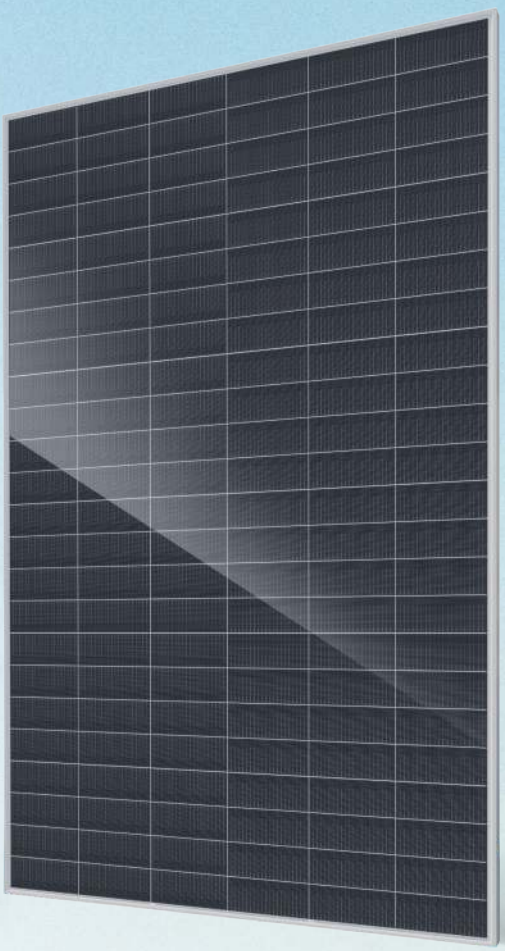
Composite Structure Enhancement Technology

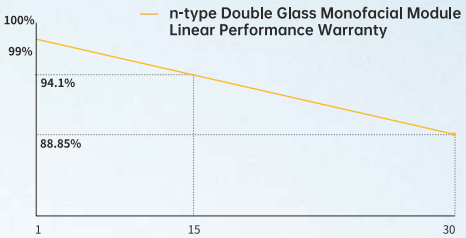
Higher Power Generation

Better Temperature Coefficient (-0.26%/°C)

Excellent Low-Light Performance

Lower LCOE Higher Customer Value





1% 1st-year Degradation 0.35% 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.

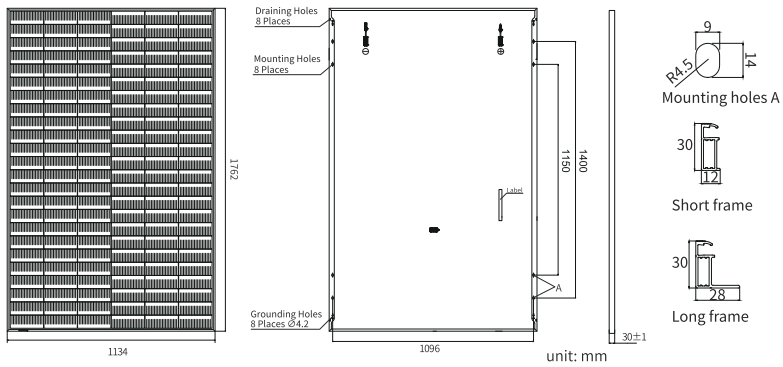
Comprehensive Certificates

- 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

TÜV CE

JAM48D50 LR n-type Double Glass Monofacial Modules

DEEP BLUE 5.0



MECHANICAL PARAMETERS

Cell	Mono
Weight	21.5kg
Dimensions	1762mm×1134mm×30mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	144(6×24)
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: 300mm(+) /400mm(-) Landscape: 1200mm(+)/1200mm(-)
Frame	Anodized Aluminium Alloy
Front Glass	1.6mm, Anti-reflection Coating
Back Glass	1.6mm, Heat Strengthened Glass
Packaging Configuration	37pcs/Pallet, 962pcs/40HQ Container
Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM48D50 -475/LR	JAM48D50 -480/LR	JAM48D50 -485/LR	JAM48D50 -490/LR
Rated Maximum Power(Pmax) [W]	475	480	485	490
Open Circuit Voltage (Voc) [V]	36.33	36.40	36.47	36.53
Maximum Power Voltage(Vmp) [V]	29.81	30.04	30.26	30.48
Short Circuit Current(Isc) [A]	16.73	16.78	16.83	16.88
Maximum Power Current(Imp) [A]	15.93	15.98	16.03	16.08
Module Efficiency [%]	23.8	24.0	24.3	24.5
Power Sorting Tolerance	0~+3%			
Temperature Coefficient of Isc/α_Isc)	+0.041%/°C			
Temperature Coefficient of Voc (β_Voc)	-0.220%/°C			
Temperature Coefficient of Pmax(γ_Pmp)	-0.260%/°C			
STC	Irradiance 1000W/m², cell temperature 25°C, AM1.5G			

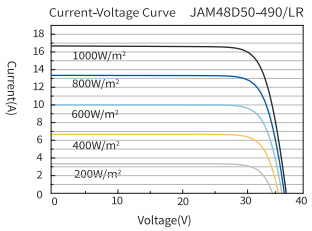
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.
They only serve for comparison among different module types.
Measurement torlerance at STC and BNPI:Pmax±3%, Voc±3%, Isc±5% and the tolerance of Isc at BSI：±5%.

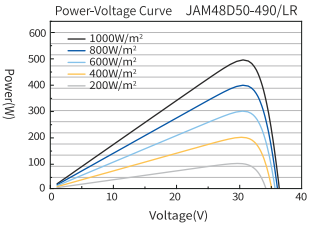
ELECTRICAL PARAMETERS With Low Irradiance Of 200W/m²

TYPE	JAM48D50 -475/LR	JAM48D50 -480/LR	JAM48D50 -485/LR	JAM48D50 -490/LR
Rated Max Power(Pmax) [W]	92.14	93.14	94.14	94.97
Open Circuit Voltage(Voc) [V]	34.07	34.16	34.24	34.29
Max Power Voltage(Vmp) IV]	29.31	29.45	29.56	29.69
Short Circuit Current(Isc) [Al	3.35	3.36	3.37	3.38
Max Power Current(Imp) [A]	3.14	3.16	3.18	3.20
Low Irradiance	(200±2) W/m² ,module at (25±2) °C			

* For Nextracker installations, maximum static load please take compatibility approve letter between JA Solar and Nextracker for reference.

CHARACTERISTICS





OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature*	-40°C~+70°C
Maximum Series Fuse Rating	30A
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

JA SOLAR

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Specifications subject to technical changes and tests.
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