JA SOLAR

Reliable Power for the Journey Ahead

485W

JAM48D51 LR Black Module n-type Double Glass Monofacial Modules

More Performance · Same Trust

Premium Modules

Higher Power Output

Bycium+ 5.0 Cell Technology

Full-Screen Design

Enhanced Reliability

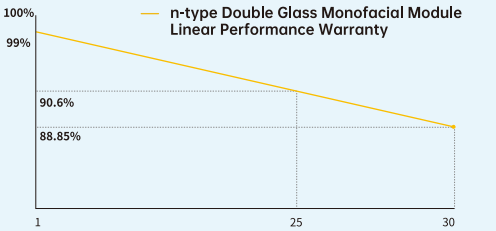
Composite Structure Enhancement Technology

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

25 25-year product warranty

30 30-year linear power output warranty



Comprehensive Certificates

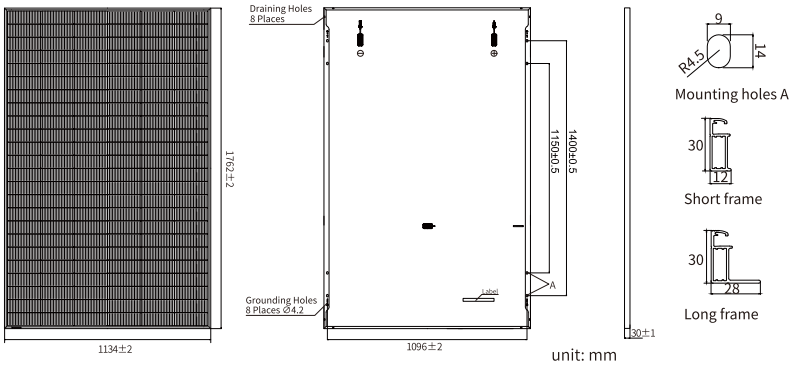
- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing

DEEP BLUE 5.0

TÜV CE

JAM48D51 LR n-type Double Glass Monofacial Modules

DEEP BLUE 5.0



MECHANICAL PARAMETERS

Cell	Mono
Weight	21.5kg
Dimensions	1762±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	QC 4.10-351/ MC4-EVO2A
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

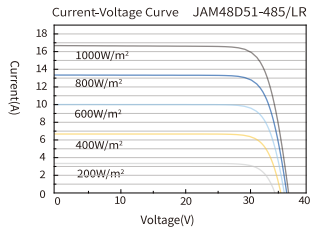
Remark: customized frame color and cable length available upon request

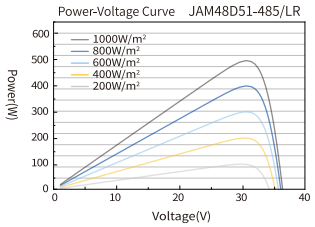
ELECTRICAL PARAMETERS AT STC

TYPE	JAM48D51 -460/LR	JAM48D51 -465/LR	JAM48D51 -470/LR	JAM48D51 -475/LR	JAM48D51 -480/LR	JAM48D51 -485/LR
Rated Maximum Power(Pmax) [W]	460	465	470	475	480	485
Open Circuit Voltage (Voc) [V]	36.21	36.28	36.35	36.42	36.48	36.55
Maximum Power Voltage(Vmp) [V]	29.58	29.81	30.04	30.26	30.49	30.71
Short Circuit Current(Isc) [A]	16.33	16.38	16.43	16.48	16.53	16.58
Maximum Power Current(Imp) [A]	15.55	15.60	15.65	15.70	15.74	15.79
Module Efficiency [%]	23.0	23.3	23.5	23.8	24.0	24.3
Power 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.

CHARACTERISTICS





ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM48D51 -460/LR	JAM48D51 -465/LR	JAM48D51 -470/LR	JAM48D51 -475/LR	JAM48D51 -480/LR	JAM48D51 -485/LR
Rated Max Power(Pmax) [W]	352	356	359	363	365	369
Open Circuit Voltage(Voc) [V]	34.39	34.44	34.50	34.56	34.61	34.67
Max Power Voltage(Vmp) [V]	28.17	28.34	28.51	28.71	28.84	28.99
Short Circuit Current(Isc) [A]	13.18	13.22	13.26	13.30	13.33	13.37
Max Power Current(Imp) [A]	12.50	12.55	12.60	12.64	12.67	12.72
NOCT	Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G					

OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature*	-40°C~+70°C
Maximum Series Fuse Rating	30A
Maximum Static Load, Front	5400Pa(112 lb/ft²)
Maximum Static Load, Back	2400Pa(50 lb/ft²)
NOCT	45±2°C
Safety Class	Class II
Fire Performance	UL Type 38/Class C

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

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Specifications subject to technical changes and tests.
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