

Harvest the Sunshine

JA SOLAR

540W



# JAM54D51 GR n-type Double Glass Monofacial Modules



**DEEP BLUE 5.0** Intelligent · Quality · Evolution

## Premium Modules

### Higher Power Output

Bycium+ 5.0 Cell Technology  
Full-Screen Design

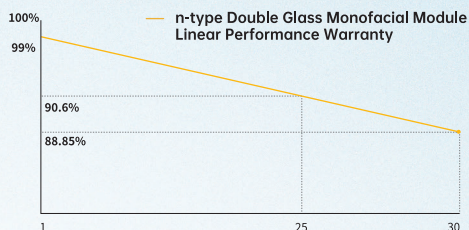
### Enhanced Reliability

Composite Structure  
Enhancement Technology

### Higher Power Generation


Better Temperature Coefficient (-0.26%/°C)  
Excellent Low-Light Performance

### Lower LCOE Higher Customer Value



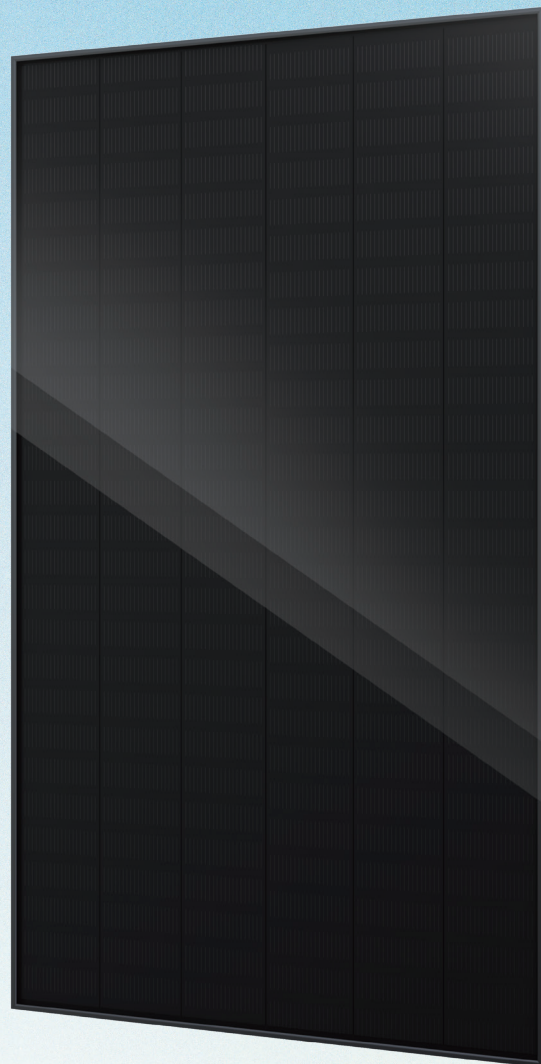
1% 1st-year Degradation    0.35% Annual Degradation Over 30 years

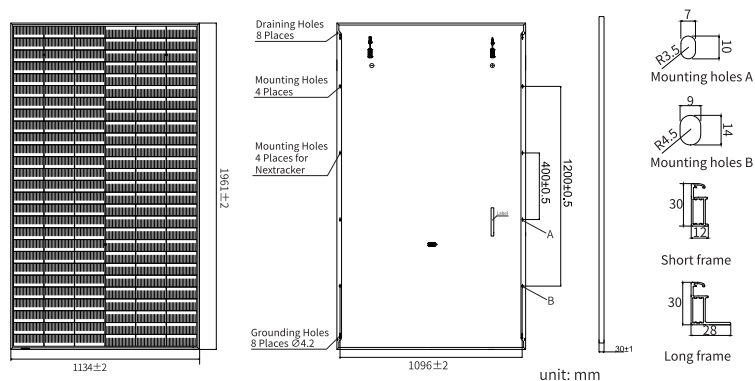
 25-year product warranty

 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





## MECHANICAL PARAMETERS

Cell	Mono
Weight	27.4kg
Dimensions	1961±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	162(6×27)
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	2.0mm, Anti-reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Packaging Configuration	37pcs/Pallet, 888pcs/40HQ Container

Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

TYPE	JAM54D51 -515/GR	JAM54D51 -520/GR	JAM54D51 -525/GR	JAM54D51 -530/GR	JAM54D51 -535/GR	JAM54D51 -540/GR
Rated Maximum Power(Pmax) [W]	515	520	525	530	535	550
Open Circuit Voltage (Voc) [V]	40.79	40.88	40.95	41.02	41.10	41.17
Maximum Power Voltage(Vmp) [V]	33.11	33.33	33.55	33.77	33.98	34.20
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 [%]	23.2	23.4	23.6	23.8	24.1	24.3
Power Tolerance	0~+3%					
Temperature Coefficient of Isc(α <sub>Isc</sub> )	+0.041%/°C					
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.220%/°C					
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.260%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G					

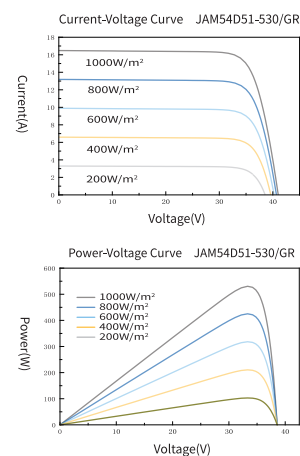
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM54D51 -515/GR	JAM54D51 -520/GR	JAM54D51 -525/GR	JAM54D51 -530/GR	JAM54D51 -535/GR	JAM54D51 -540/GR
Rated Max Power(Pmax) [W]	395	399	402	406	409	412
Open Circuit Voltage(Voc) [V]	38.74	38.82	38.87	38.93	39.00	39.06
Max Power Voltage(Vmp) [V]	31.68	31.84	31.99	32.16	32.31	32.45
Short Circuit Current(Isc) [A]	13.18	13.22	13.26	13.30	13.34	13.38
Max Power Current(Imp) [A]	12.47	12.53	12.58	12.62	12.66	12.70
NOCT	Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, wind speed 1m/s, AM1.5G					

\* For Nextrack installations, maximum static load please take compatibility approve letter between JA Solar and Nextrack 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*	5400Pa(112 lb/ft <sup>2</sup> )
Maximum Static Load, Back*	2400Pa(50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Safety Class	Class II
Fire Performance	UL Type 29/Class C

\*PV module 98<sup>th</sup> percentile operating temperature : 70°C