

Harvest the Sunshine

JA SOLAR

550W



JAM54D50 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

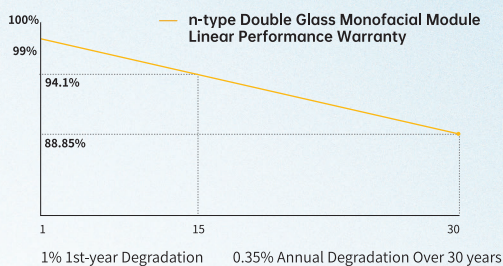
Enhanced Reliability

Composite Structure
Enhancement Technology

Higher Power Generation

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

Lower LCOE Higher Customer Value

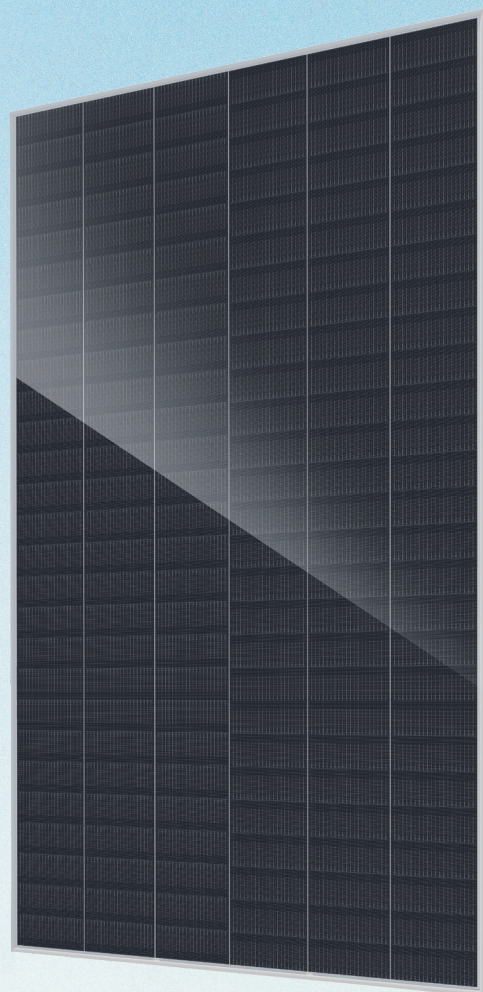


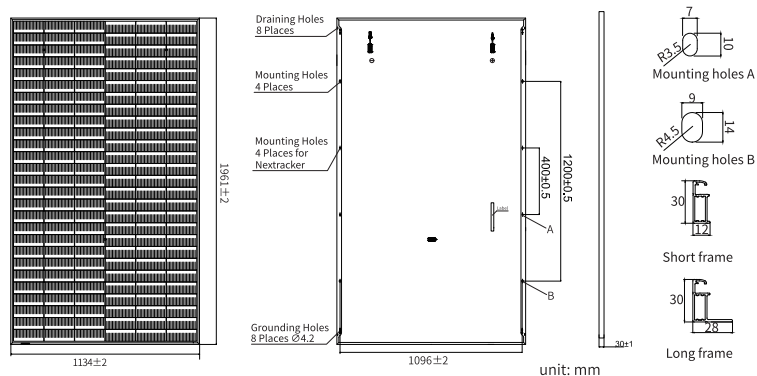
15 15-year product warranty

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





MECHANICAL PARAMETERS

Cell	Mono
Weight	27.4kg
Dimensions	1961±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (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	JAM54D50 -525/GR	JAM54D50 -530/GR	JAM54D50 -535/GR	JAM54D50 -540/GR	JAM54D50 -545/GR	JAM54D50 -550/GR
Rated Maximum Power(Pmax) [W]	525	530	535	540	545	550
Open Circuit Voltage (Voc) [V]	40.79	40.88	40.95	41.02	41.10	41.17
Maximum Power Voltage(Vmp) [V]	33.05	33.26	33.48	33.69	33.90	34.11
Short Circuit Current(Isc) [A]	16.68	16.73	16.78	16.83	16.88	16.93
Maximum Power Current(Imp) [A]	15.89	15.93	15.98	16.03	16.08	16.12
Module Efficiency [%]	23.6	23.8	24.1	24.3	24.5	24.7
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/m ² , cell temperature 25°C, AM1.5G					

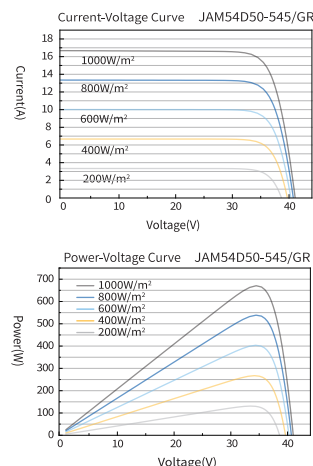
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM54D50 -525/GR	JAM54D50 -530/GR	JAM54D50 -535/GR	JAM54D50 -540/GR	JAM54D50 -545/GR	JAM54D50 -550/GR
Rated Max Power(Pmax) [W]	403	406	410	413	416	419
Open Circuit Voltage(Voc) [V]	38.76	38.84	38.89	38.95	39.02	39.07
Max Power Voltage(Vmp) [V]	31.61	31.75	31.90	32.05	32.19	32.34
Short Circuit Current(Isc) [A]	13.46	13.50	13.54	13.58	13.62	13.66
Max Power Current(Imp) [A]	12.75	12.80	12.85	12.89	12.94	12.97
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					

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

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