JA SOLAR

Harvest the Sunshine

515 W

JAM60D40 LB n-type Double Glass Bifacial Modules

Premium Cells

n-Bycium+ 16BB

MBB Half-Cell Technology

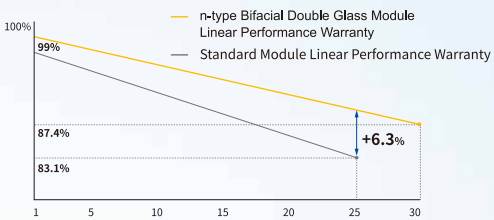
26%

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

12 12-year product warranty

30 30-year linear power output warranty

*Remark: The performance warranty applies at STC condition.

Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61215, UL 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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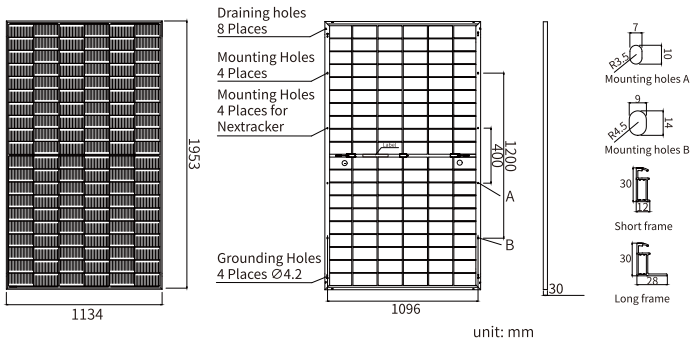


MECHANICAL PARAMETERS

Cell	Mono
Weight	23.2kg
Dimensions	1953mm×1134mm×30mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	120(6×20)
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, 864pcs/40HQ Container
Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM60D40 -490/LB STC	JAM60D40 -490/LB BNPI	JAM60D40 -495/LB STC	JAM60D40 -495/LB BNPI	JAM60D40 -500/LB STC	JAM60D40 -500/LB BNPI	JAM60D40 -505/LB STC	JAM60D40 -505/LB BNPI	JAM60D40 -510/LB STC	JAM60D40 -510/LB BNPI	JAM60D40 -515/LB STC	JAM60D40 -515/LB BNPI
Rated Maximum Power(Pmax) [W]	490	540	495	545	500	550	505	555	510	560	515	569
Open Circuit Voltage (Voc) [V]	43.45	43.45	43.65	43.65	43.85	43.85	44.05	44.05	44.25	44.25	45.00	45.00
Maximum Power Voltage(Vmp) [V]	36.49	36.49	36.70	36.70	36.91	36.91	37.11	37.11	37.31	37.31	37.62	37.62
Short Circuit Current(Isc) [A]	14.30	15.76	14.36	15.81	14.42	15.86	14.48	15.91	14.54	15.96	14.56	16.07
Maximum Power Current(Imp) [A]	13.43	14.80	13.49	14.86	13.55	14.91	13.61	14.96	13.67	15.01	13.69	15.11
Module Efficiency [%]	22.1		22.4		22.6		22.8		23.0		23.3	
Short Circuit Current (Isc) [A] at BSI	17.51		17.55		17.73		17.78		17.82		17.92	
Power Tolerance	0~+3%											
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											
BNPI	Front Irradiance 1000W/m², rear Irradiance 135W/m²											
BSI	Front Irradiance 1000W/m², rear Irradiance 300W/m²											

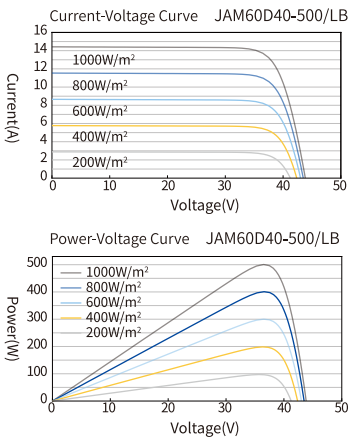
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.
They only serve for comparison among different module types.
Measurement torlerance at STC and BNPI:Pmax±3%, Voc±3%, Isc±5% and the tolerance of Isc at BSI: ±5%.

ELECTRICAL CHARACTERISTICS WITH 10% Bifacial Gains and Low Irradiance Of 200W/m²

TYPE	JAM60D40 -490/LB 10%	JAM60D40 -490/LB 200W/m²	JAM60D40 -495/LB 10%	JAM60D40 -495/LB 200W/m²	JAM60D40 -500/LB 10%	JAM60D40 -500/LB 200W/m²	JAM60D40 -505/LB 10%	JAM60D40 -505/LB 200W/m²	JAM60D40 -510/LB 10%	JAM60D40 -510/LB 200W/m²	JAM60D40 -515/LB 10%	JAM60D40 -515/LB 200W/m²
Rated Max Power(Pmax) [W]	539	95.39	545	96.24	550	97.33	556	98.19	561	99.34	567	99.98
Open Circuit Voltage(Voc) [V]	43.45	40.89	43.65	41.08	43.85	41.27	44.05	41.46	44.25	41.65	45.00	42.32
Max Power Voltage(Vmp) [V]	36.49	35.38	36.70	35.55	36.91	35.73	37.11	35.89	37.31	36.05	37.62	36.18
Short Circuit Current(Isc) [A]	15.73	2.86	15.80	2.87	15.86	2.88	15.93	2.90	15.99	2.91	16.02	2.91
Max Power Current(Imp) [A]	14.77	2.70	14.84	2.71	14.91	2.72	14.97	2.74	15.04	2.76	15.06	2.76
Irradiation Ratio (rear/front)	10%											
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
Bifaciality	φPmax(80±5)%,φVoc(98±5)%,φIsc(80±5)%
Safety Class	Class II
Fire Performance	Class C

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

JA SOLAR

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