

Harvest the Sunshine

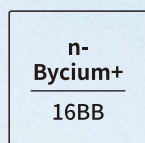
JA SOLAR

505W



JAM60D41 LB Black Module n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



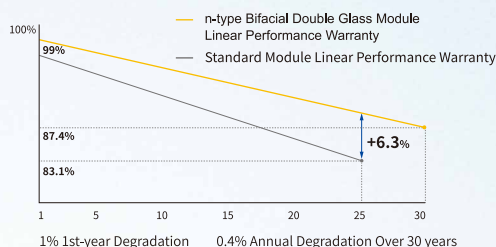
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



12-year product
warranty



30-year linear power
output warranty

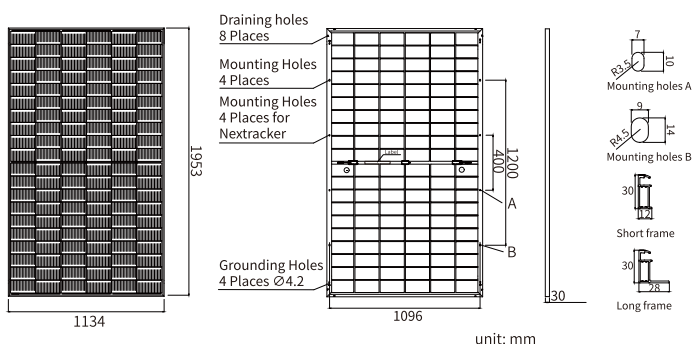
*Remark: The performance warranty applies at STC condition.

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



DEEP BLUE 4.0 Pro



MECHANICAL PARAMETERS

Cell	Mono
Weight	27.3kg
Dimensions	1953mm×1134mm×30mm
Cable Cross Section Size	4mm ² (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	2.0mm/2.0mm
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	JAM60D41 -485/LB STC BNPI	JAM60D41 -490/LB STC BNPI	JAM60D41 -495/LB STC BNPI	JAM60D41 -500/LB STC BNPI	JAM60D41 -505/LB STC BNPI
Rated Maximum Power(Pmax) [W]	485 535	490 541	495 546	500 552	505 557
Open Circuit Voltage (Voc) [V]	44.40 44.40	44.60 44.60	44.80 44.80	45.00 45.00	45.20 45.20
Maximum Power Voltage(Vmp) [V]	37.75 37.75	37.91 37.91	38.08 38.08	38.26 38.26	38.43 38.43
Short Circuit Current(Isc) [A]	13.90 15.34	13.95 15.40	14.00 15.46	14.05 15.51	14.10 15.57
Maximum Power Current(Imp) [A]	12.85 14.19	12.93 14.27	13.00 14.35	13.07 14.43	13.14 14.51
Module Efficiency [%]	21.9	22.1	22.4	22.6	22.8
Short Circuit Current (Isc) [A] at BSI	17.11	17.17	17.23	17.30	17.36
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/m ² , cell temperature 25°C, AM1.5G				
BNPI	Front Irradiance 1000W/m ² , rear Irradiance 135W/m ²				
BSI	Front Irradiance 1000W/m ² , rear Irradiance 300W/m ²				

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.

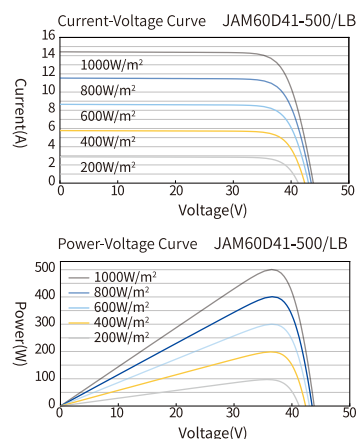
They only serve for comparison among different module types.

Measurement tolerance at STC and BNPI: Pmax±3%, Voc±5% and the tolerance of Isc at BSI: ±5%.

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

TYPE	JAM60D41 -485/LB 10% 200W/m ²	JAM60D41 -490/LB 10% 200W/m ²	JAM60D41 -495/LB 10% 200W/m ²	JAM60D41 -500/LB 10% 200W/m ²	JAM60D41 -505/LB 10% 200W/m ²
Rated Max Power(Pmax) [W]	534 94	539 96	545 96	550 97	556 98
Open Circuit Voltage(Voc) [V]	44.40 41.77	44.60 41.96	44.80 42.12	45.00 42.34	45.20 42.54
Max Power Voltage(Vmp) [V]	37.75 36.12	37.91 36.30	38.08 36.42	38.26 36.64	38.43 36.82
Short Circuit Current(Isc) [A]	15.29 2.78	15.35 2.79	15.40 2.80	15.46 2.81	15.51 2.82
Max Power Current(Imp) [A]	14.14 2.62	14.22 2.63	14.30 2.65	14.38 2.66	14.45 2.67
Irradiation Ratio (rear/front)	10%				
Low Irradiance	(200±2) W/m ² , module at (25±2) °C				

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±10)%,φVoc(98±5)%,φIsc(80±10)%
Safety Class	Class II
Fire Performance	Class C

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