

440W **LB**
Series

Higher power generation better LCOE



n-type with Very low LID



Better temperature coefficient



Better low irradiance response



25-year product warranty



30-year linear power output warranty

**n-type Bifacial Double Glass
High Efficiency Mono Module
JAM54D40 LB/1500V****430-455****Comprehensive Certificates**

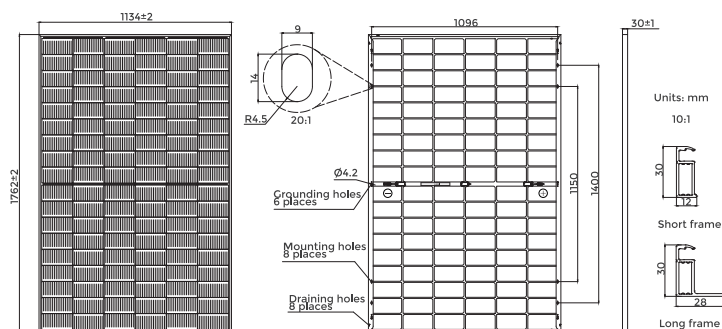
- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems





430-455

JAM54D40

LB
Series

Remark: customized frame color and cable length available upon request

Cell	Mono-16BB
Weight	22kg
Dimensions	1762±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	108(6×18)
Junction Box	IP68, 3 diodes
Connector	Stäubli MC4-EVO2A/MC4-EVO2 QC Solar QC 4.10-351/QC 4.10-35
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); 800mm(+)/800mm(-)(Leapfrog) Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	1.6mm/1.6mm
Country of Manufacturer	China/Vietnam

ELECTRICAL PARAMETERS AT STC

TYPE	JAM54D40-430/LB/1500V	JAM54D40-435/LB/1500V	JAM54D40-440/LB/1500V	JAM54D40-445/LB/1500V	JAM54D40-450/LB/1500V	JAM54D40-455/LB/1500V
Rated Maximum Power(P _{max}) [W]	430	435	440	445	450	455
Open Circuit Voltage(V _{oc}) [V]	38.50	38.70	38.90	39.10	39.30	39.50
Maximum Power Voltage(V _{mp}) [V]	32.12	32.29	32.47	32.65	32.82	33.00
Short Circuit Current(I _{sc}) [A]	14.14	14.23	14.31	14.40	14.48	14.56
Maximum Power Current(I _{mp}) [A]	13.39	13.47	13.55	13.63	13.71	13.79
Module Efficiency [%]	21.5	21.8	22.0	22.3	22.5	22.8
Power Tolerance	0~+5W					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.046%/ °C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.260%/ °C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.300%/ °C					
STC	Irradiance 1000W/m ² , cell temperature 25 °C, AM1.5G					

Measurement tolerance at STC: P_{max} ±3%, V_{oc} ±3% and I_{sc} ±5%.

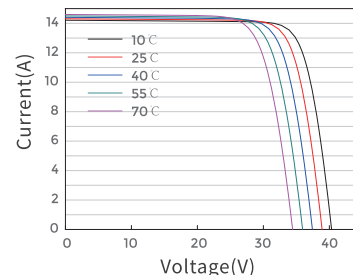
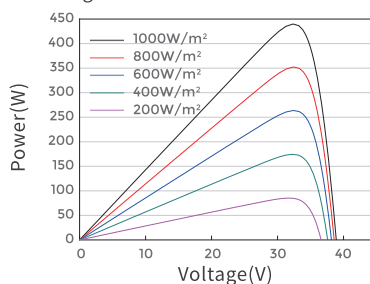
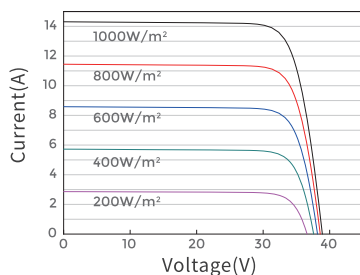
ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM54D40-430/LB/1500V	JAM54D40-435/LB/1500V	JAM54D40-440/LB/1500V	JAM54D40-445/LB/1500V	JAM54D40-450/LB/1500V	JAM54D40-455/LB/1500V
Rated Max Power(P _{max}) [W]	464	470	475	481	486	491
Open Circuit Voltage(V _{oc}) [V]	38.50	38.70	38.90	39.10	39.30	39.50
Max Power Voltage(V _{mp}) [V]	32.11	32.29	32.47	32.65	32.82	32.99
Short Circuit Current(I _{sc}) [A]	15.27	15.36	15.46	15.55	15.64	15.73
Max Power Current(I _{mp}) [A]	14.46	14.55	14.63	14.72	14.81	14.89
Irradiation Ratio (rear/front)	10%					

*Bifaciality=P_{max, rear}/Rated P_{max, front}

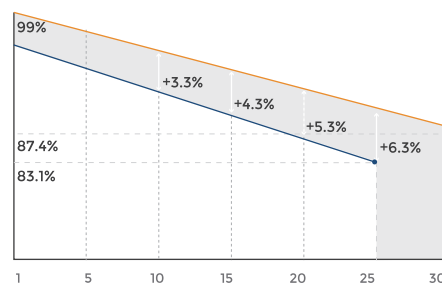
CHARACTERISTICS

Current-Voltage Curve JAM54D40-440/LB/1500V Power-Voltage Curve JAM54D40-440/LB/1500V Current-Voltage Curve JAM54D40-440/LB/1500V



Superior Warranty

1% 1st-year Degradation
 0.4% Annual Degradation Over 30 years



- n-type Bifacial Double Glass Module Linear Performance Warranty
- Standard Module Linear Performance Warranty

*Subject to the terms and conditions contained in the Limited Warranty Statement. Also this 25-year limited product warranty is available only for products installed and operating on rooftops in certain regions.

OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40 °C ~+85 °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*	80%±10%
Fire Safety Class	Class C