

Harvest the Sunshine

JA SOLAR

475W



JAM54S40 LR n-type Monofacial Module

Premium Cells

n-
Bycium+
16BB

MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

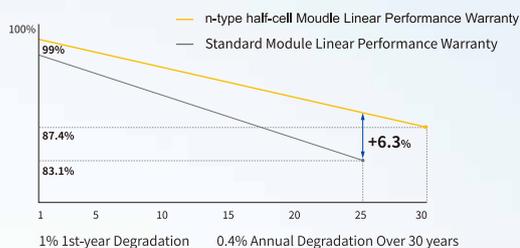
Premium Modules

Higher power
generation better LCOE

n-type with very
Lower LID

Better Temperature
Coefficient

Better low irradiance
response



15-year product
warranty

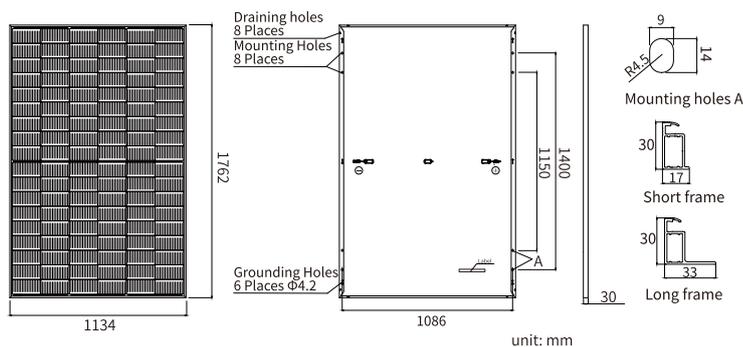
30-year linear power
output warranty

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



DEEP BLUE 4.0 Pro



MECHANICAL PARAMETERS

Cell	Mono
Weight	20kg
Dimensions	1762mm × 1134mm × 30mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	108(6 × 18)
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	2.8mm
Packaging Configuration	36pcs/Pallet, 936pcs/40HQ Container
Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

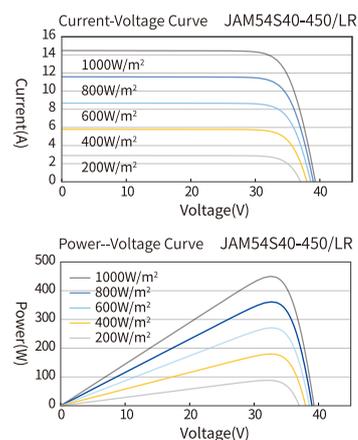
TYPE	JAM54S40 -450/LR	JAM54S40 -455/LR	JAM54S40 -460/LR	JAM54S40 -465/LR	JAM54S40 -470/LR	JAM54S40 -475/LR
Rated Maximum Power(Pmax) [W]	450	455	460	465	470	475
Open Circuit Voltage (Voc) [V]	39.30	39.50	39.70	40.20	40.40	40.55
Maximum Power Voltage(Vmp) [V]	32.82	33.00	33.17	33.50	33.84	34.18
Short Circuit Current(Isc) [A]	14.48	14.56	14.64	14.65	14.66	14.67
Maximum Power Current(Imp) [A]	13.71	13.79	13.87	13.88	13.89	13.90
Module Efficiency [%]	22.5	22.8	23.0	23.3	23.5	23.8
Power Selection	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					

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: Pmax ± 3%, Voc ± 3%, Isc ± 5%.

ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM54S40 -450/LR	JAM54S40 -455/LR	JAM54S40 -460/LR	JAM54S40 -465/LR	JAM54S40 -470/LR	JAM54S40 -475/LR
Rated Max Power(Pmax) [W]	341	344	348	352	356	360
Open Circuit Voltage(Voc) [V]	37.19	37.37	37.57	38.04	38.23	38.52
Max Power Voltage(Vmp) [V]	31.06	31.22	31.38	31.68	32.00	32.31
Short Circuit Current(Isc) [A]	11.58	11.65	11.71	11.72	11.73	11.74
Max Power Current(Imp) [A]	10.97	11.03	11.10	11.11	11.12	11.14
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					

CHARACTERISTICS



OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+70°C
Maximum Series Fuse Rating	25A
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	Class C

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