

Harvest the Sunshine

JA SOLAR

480W



JAM54S42 LR

n-type Monofacial Modules

Premium Cells

n-
Bycium+
16BB

MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

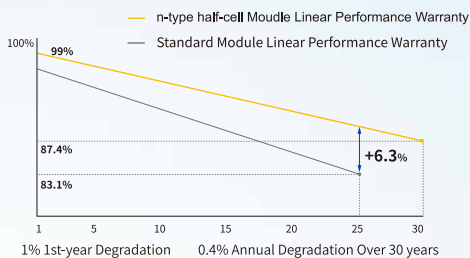
Premium Modules

Higher power
generation better LCOE

n-type with very
Lower LID

Better Temperature
Coefficient

Better low irradiance
response



15-year product
warranty

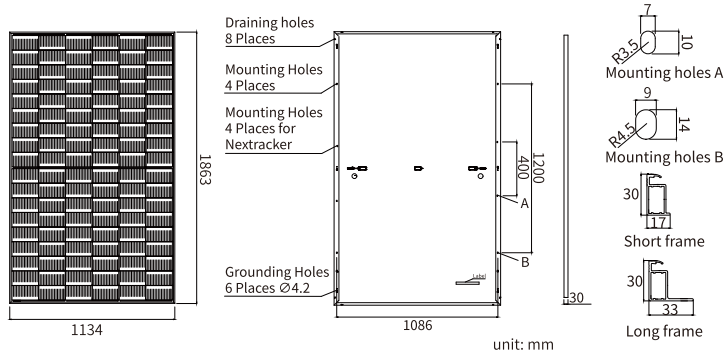
30-year linear power
output warranty

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	21.1kg
Dimensions	1863×1134mm×30mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	108(6×18)
Junction Box	IP68, 3diodes
Connector	QC Solar QC4.10-351/QC4.10-35 Stäubli PV-KST4-EVO2A/xy ,PV-KBT4-EVO2A/xy
Cable Length (including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	2.8mm
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

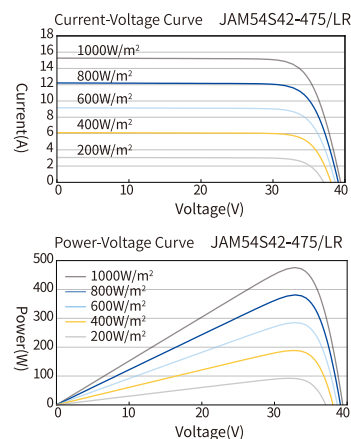
TYPE	JAM54S42 -455/LR	JAM54S42 -460/LR	JAM54S42 -465/LR	JAM54S42 -470/LR	JAM54S42 -475/LR	JAM54S42 -480/LR
Rated Maximum Power(Pmax) [W]	455	460	465	470	475	480
Open Circuit Voltage (Voc) [V]	38.60	38.80	39.00	39.20	39.40	39.60
Maximum Power Voltage(Vmp) [V]	32.27	32.51	32.75	32.98	33.22	33.45
Short Circuit Current(Isc) [A]	15.07	15.12	15.17	15.22	15.27	15.32
Maximum Power Current(Imp) [A]	14.10	14.15	14.20	14.25	14.30	14.35
Module Efficiency [%]	21.5	21.8	22.0	22.2	22.5	22.7
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					

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% and Isc ±5%.

ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM54S42 -455/LR	JAM54S42 -460/LR	JAM54S42 -465/LR	JAM54S42 -470/LR	JAM54S42 -475/LR	JAM54S42 -480/LR
Rated Max Power(Pmax) [W]	344	348	352	356	360	363
Open Circuit Voltage(Voc) [V]	36.53	36.71	36.90	37.09	37.28	37.47
Max Power Voltage(Vmp) [V]	30.54	30.76	30.99	31.21	31.43	31.65
Short Circuit Current(Isc) [A]	12.06	12.10	12.14	12.18	12.22	12.26
Max Power Current(Imp) [A]	11.28	11.32	11.36	11.40	11.44	11.48
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~+85°C
Maximum Series Fuse Rating	25A
Maximum Static Load, Front	3600Pa, 1.5
Maximum Static Load, Back	1600Pa, 1.5
NOCT	45±2°C
Safety Class	Class II
Fire Safety Class	Class C