JA SOLAR

Harvest the Sunshine

510W

JAM60S40 LR

n-type Monofacial Modules

Premium Cells

n-Bycium+ 16BB

MBB Half-Cell Technology

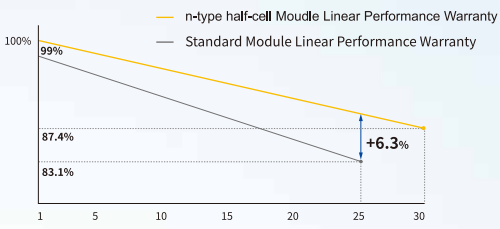
26%

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

15 15-year product warranty

30 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

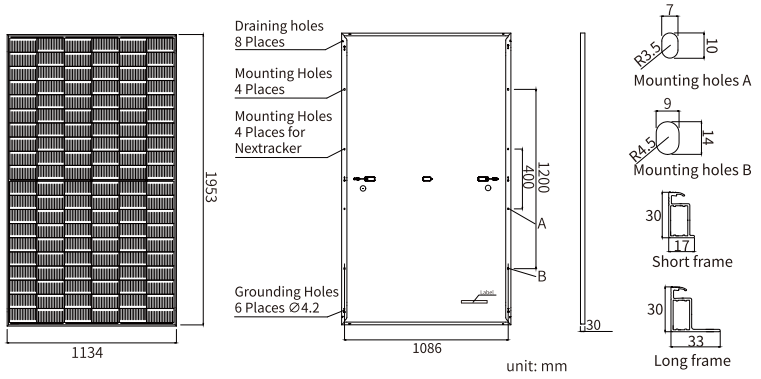
CE

DEEP BLUE 4.0

JAM60S40 LR

n-type Monofacial Modules

DEEP BLUE 4.0



MECHANICAL PARAMETERS

Cell	Mono
Weight	24.3kg
Dimensions	1953×1134mm×30mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	120(6×20)
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	3.2mm
Packaging Configuration	36pcs/Pallet, 864pcs/40HQ Container
Country of Manufacturer	China/Vietnam

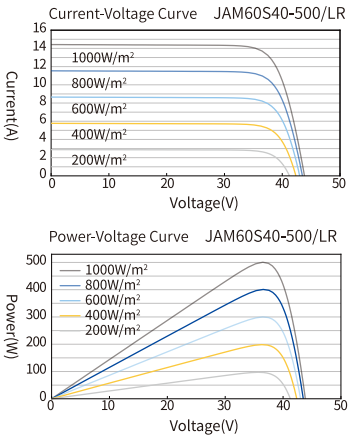
Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM60S40 -485/LR	JAM60S40 -490/LR	JAM60S40 -495/LR	JAM60S40 -500/LR	JAM60S40 -505/LR	JAM60S40 -510/LR
Rated Maximum Power(Pmax) [W]	485	490	495	500	505	510
Open Circuit Voltage (Voc) [V]	43.25	43.45	43.65	43.85	44.05	44.25
Maximum Power Voltage(Vmp) [V]	36.28	36.49	36.70	36.91	37.11	37.31
Short Circuit Current(Isc) [A]	14.24	14.30	14.36	14.42	14.48	14.54
Maximum Power Current(Imp) [A]	13.37	13.43	13.49	13.55	13.61	13.67
Module Efficiency [%]	21.9	22.1	22.4	22.6	22.8	23.0
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					

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%.

CHARACTERISTICS



ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM60S40 -485/LR	JAM60S40 -490/LR	JAM60S40 -495/LR	JAM60S40 -500/LR	JAM60S40 -505/LR	JAM60S40 -510/LR
Rated Max Power(Pmax) [W]	365.5	369.3	373.1	376.8	380.6	384.3
Open Circuit Voltage(Voc) [V]	40.70	40.90	41.10	41.30	41.50	41.60
Max Power Voltage(Vmp) [V]	33.70	33.90	34.10	34.20	34.40	34.60
Short Circuit Current(Isc) [A]	11.49	11.54	11.59	11.64	11.68	11.73
Max Power Current(Imp) [A]	10.85	10.90	10.95	11.00	11.05	11.11
NOCT	Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G					

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

JA SOLAR

Headquarters JA Solar Technology Co., Ltd.
No. 123 Xinxing Road, 055550 Ningjin County, Hebei Province,
PEOPLE'S REPUBLIC OF CHINA

Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.

Version No. : Aus-EN-20241219A