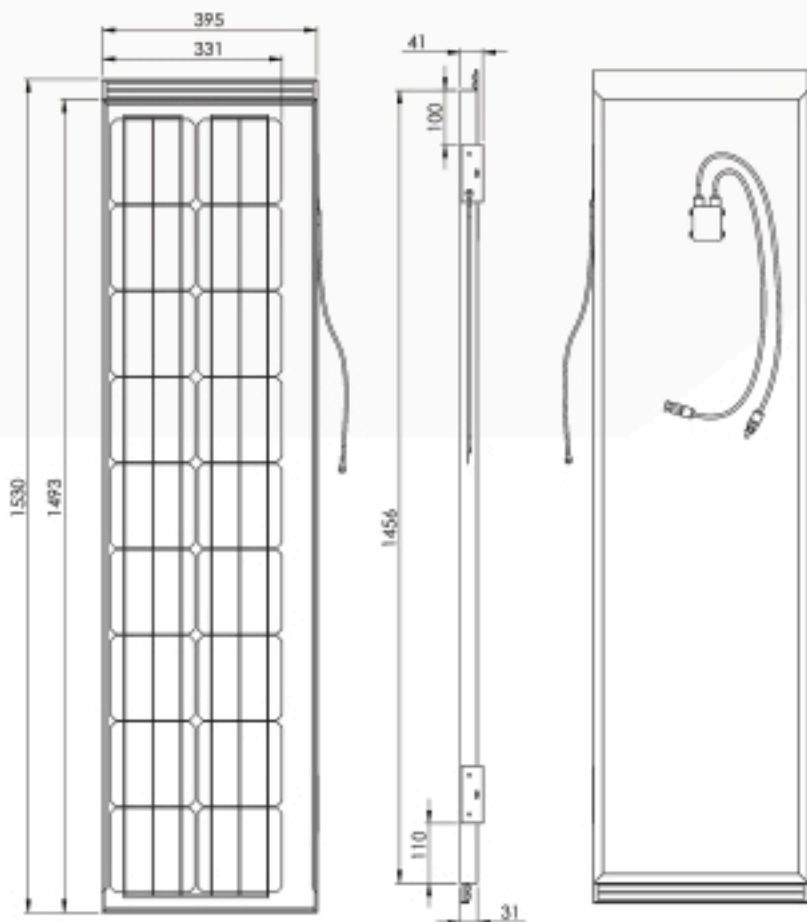
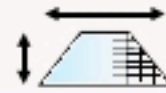


Drawings



Calculator

Designed for BIPV



Online tool helps automate layout generation and facilitates dimensioning of utility patented Solarstone PV systems. Ask sales representative for access.

Mechanical Specifications

Model name	S90B30
Cell type	Monocrystalline, 156 x 156mm
Number of cells	18
Weight (kg)	7
Junction box	1 diode, IP65
Dimensions (mm)	1530 x 395 x 31
Dimensions (mm, installed)	1492 x 331 ... 360 x 31
Suitable batten spacing (mm)	331 ... 360

Electrical Specifications

Maximum power rating (Pmax)	90
Tolerance of max power rating	+3/-3%
Power temperature coef. (°C)	-0.414 %
Open circuit voltage (Voc)	11,22
Short circuit current (Isc)	9,58
Maximum power voltage (Vmp)	11,9
Maximum power current (Imp)	9,27
Maximum system voltage, DC	600
Fuse rating (A)	12
Static load test passed (kg/m ²)	500
Module efficiency	18,5%
Output terminal	MC4
Fire rating	Class C

Materials & Tests

100% Recyclable



- Coated black aluminum frame
- Monocrystalline silicone cells
- Prismatic 3,2mm glass
- Flash testing to ensure rated level of output
- Lead-free solder protects health and the environment
- IEC 61215 & 61730 renewal
- Broof (t2)
- Utility-patented solution (EPO)





■ New linear power warranty ■ Standard module linear power warranty

systems
* IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval



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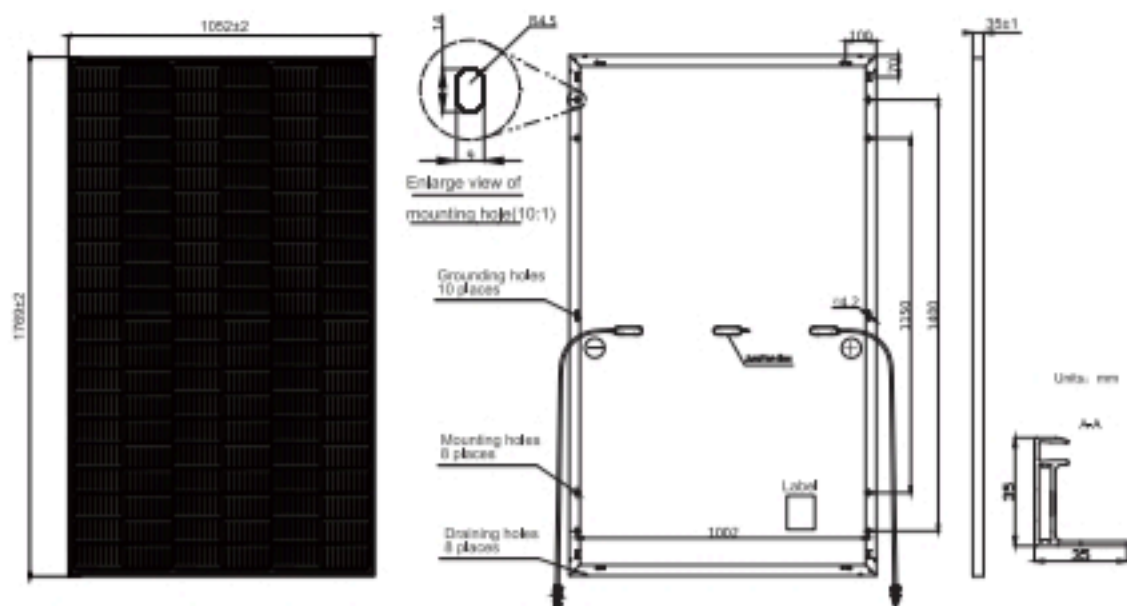
Specifications subject to technical changes and tests. JA Solar reserves the right of final interpretation.



JASOLAR

JAM60S21 355-375/MR Series

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	20.2kg±3%
Dimensions	1769±2mm×1052±2mm×35±1mm
Cable Cross Section Size	4mm ² (IEC) ,12 AWG(UL)
No. of cells	120(6×20)
Junction Box	IP68, 3 diodes
Connector	MC4(1000V) MC4-EVO2(1500V)
Cable Length (Including Connector)	1200mm(+)/1200mm(-)
Packaging Configuration	31pcs/Pallet 806pcs/40ft Container

ELECTRICAL PARAMETERS AT STC

TYPE	JAM60S21 -355/MR	JAM60S21 -360/MR	JAM60S21 -365/MR	JAM60S21 -370/MR	JAM60S21 -375/MR
Rated Maximum Power(P _{max}) [W]	355	360	365	370	375
Open Circuit Voltage(V _{oc}) [V]	40.80	40.97	41.13	41.30	41.45
Maximum Power Voltage(V _{mp}) [V]	33.34	33.65	33.96	34.23	34.50
Short Circuit Current(I _{sc}) [A]	11.20	11.25	11.30	11.35	11.41
Maximum Power Current(I _{mp}) [A]	10.65	10.70	10.75	10.81	10.87
Module Efficiency [%]	19.1	19.3	19.6	19.9	20.2
Power Tolerance	0~+5W				
Temperature Coefficient of I _{sc} (α _{Isc})	+0.044%/°C				
Temperature Coefficient of V _{oc} (β _{Voc})	-0.272%/°C				
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.350%/°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.

ELECTRICAL PARAMETERS AT NOCT

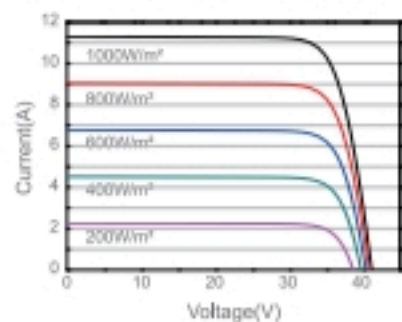
TYPE	JAM60S21 -355/MR	JAM60S21 -360/MR	JAM60S21 -365/MR	JAM60S21 -370/MR	JAM60S21 -375/MR
Rated Max Power(P _{max}) [W]	268	272	276	280	284
Open Circuit Voltage(V _{oc}) [V]	37.95	38.18	38.41	38.65	38.89
Max Power Voltage(V _{mp}) [V]	31.58	31.82	32.05	32.30	32.55
Short Circuit Current(I _{sc}) [A]	9.05	9.10	9.15	9.20	9.25
Max Power Current(I _{mp}) [A]	8.50	8.55	8.61	8.66	8.71
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G				

OPERATING CONDITIONS

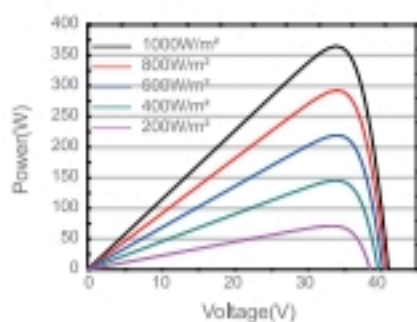
Maximum System Voltage	1000V/1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
Maximum Static Load,Front	5400Pa (112 lb/ft ²)
Maximum Static Load,Back	2400Pa (50 lb/ft ²)
NOCT	45±2°C
Safety Class	Class II
Fire Performance	UL Type 1

CHARACTERISTICS

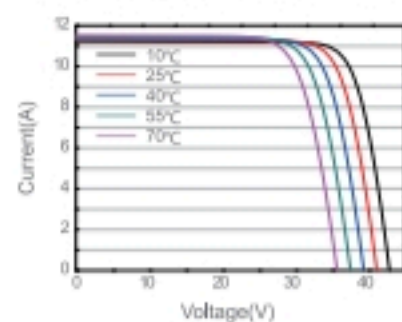
Current-Voltage Curve JAM60S21-365/MR



Power-Voltage Curve JAM60S21-365/MR



Current-Voltage Curve JAM60S21-365/MR



Premium Cells, Premium Modules

Version No. : Global_EN_20210326A

Harvest the Sunshine



Mono

**375W MBB
Half-Cell Black Module**
JAM60S21 355-375/MR Series

Introduction

Assembled with multi-busbar PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



Higher output power



Lower LCOE



Less shading and lower resistive loss

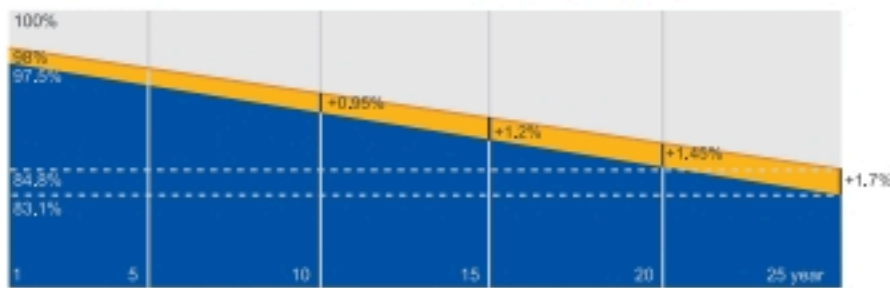


Better mechanical loading tolerance

Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty

**0.55% Annual Degradation
Over 25 years**



■ New linear power warranty ■ Standard module linear power warranty

Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval



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JAM60S21 355-375/MR Series

MECHANICAL DIAGRAMS

SPECIFICATIONS

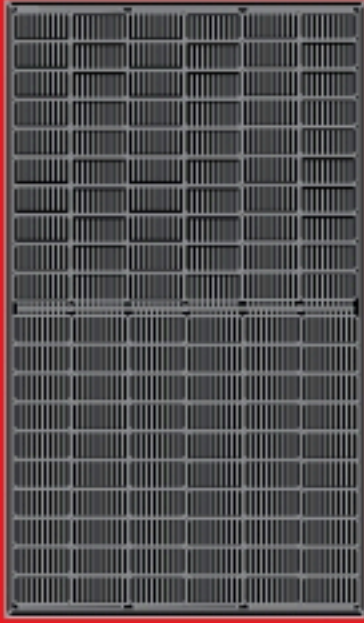


Cell Mono

LR4-60HPB 345~370M

Hi-MO 4m
(Black)

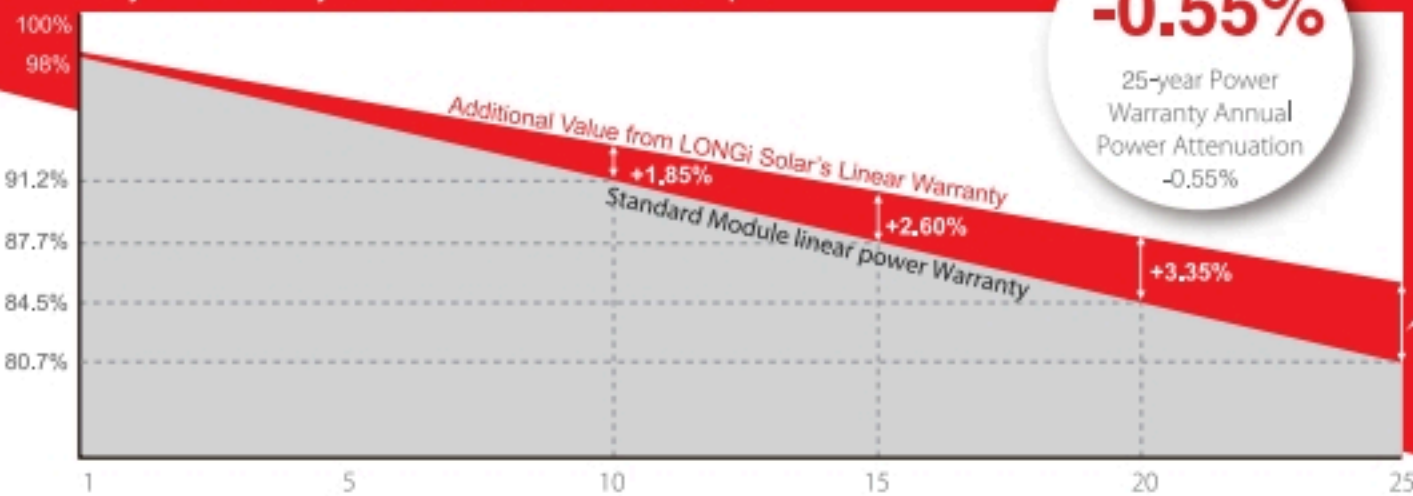
NEW



*Both 6BB & 9BB are available

**High Efficiency
Low LID Mono PERC with
Half-cut Technology**

12-year Warranty for Materials and Processing;
25-year Warranty for Extra Linear Power Output



Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO 9001:2008: ISO Quality Management System

ISO 14001: 2004: ISO Environment Management System

TS62941: Guideline for module design qualification and type approval

OHSAS 18001: 2007 Occupational Health and Safety



* Specifications subject to technical changes and tests.
LONGi Solar reserves the right of interpretation.

Positive power tolerance (0 ~ +5W) guaranteed

High module conversion efficiency (up to 20.3%)

Slower power degradation enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

Solid PID resistance ensured by solar cell process optimization and careful module BOM selection

Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

Reduced hot spot risk with optimized electrical design and lower operating current

LONGi

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Tel: +86-21-80162606 E-mail: module@longi-silicon.com Facebook: www.facebook.com/LONGi Solar

Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGi have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.

* These Modules are not offered, distributed or supplied to Germany by the LONGi Group.
LONGi Solar Technologie GmbH does not offer, distribute or supply those Modules in Germany or any other country.

20200401V11

LR4-60HPB 345~370M

Design (mm)

Mechanical Parameters

Operating Parameters

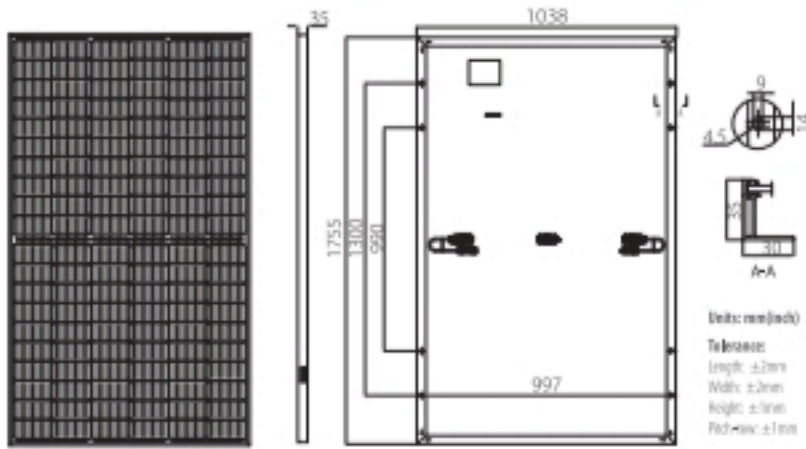
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20200401V11

LR4-60HPB 345~370M

Design (mm)



Mechanical Parameters

Cell Orientation: 120 (6×20)
 Junction Box: IP68, three diodes
 Output Cable: 4mm², 300mm in length,
 length can be customized
 Glass: Single glass
 3.2mm coated tempered glass
 Frame: Anodized aluminum alloy frame
 Weight: 19.5kg
 Dimension: 1755×1038×35mm
 Packaging: 30pcs per pallet
 180pcs per 20'GP
 780pcs per 40'HC

Operating Parameters

Operational Temperature: -40 C ~ +85 C
 Power Output Tolerance: 0 ~ +5 W
 Voc and Isc Tolerance: ±3%
 Maximum System Voltage: DC1000V (IEC/UL)
 Maximum Series Fuse Rating: 20A
 Nominal Operating Cell Temperature: 45±2 C
 Safety Class: Class II
 Fire Rating: UL type 1 or 2

Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	LR4-60HPB-345M		LR4-60HPB-350M		LR4-60HPB-355M		LR4-60HPB-360M		LR4-60HPB-365M		LR4-60HPB-370M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	345	257.6	350	261.4	355	265.1	360	268.8	365	272.6	370	276.3
Open Circuit Voltage (Voc/V)	40.2	37.7	40.4	37.9	40.6	38.1	40.8	38.2	41.0	38.4	41.2	38.6
Short Circuit Current (Isc/A)	11.06	8.95	11.16	9.02	11.25	9.09	11.33	9.16	11.41	9.23	11.50	9.30
Voltage at Maximum Power (Vmp/V)	34.2	31.8	34.4	32.0	34.6	32.2	34.8	32.4	35.0	32.6	35.2	32.8
Current at Maximum Power (Imp/A)	10.09	8.09	10.18	8.16	10.27	8.23	10.35	8.30	10.43	8.36	10.52	8.43
Module Efficiency(%)	18.9		19.2		19.5		19.8		20.0		20.3	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20 C, Spectra at AM1.5, Wind at 1m/s

Temperature Ratings (STC)

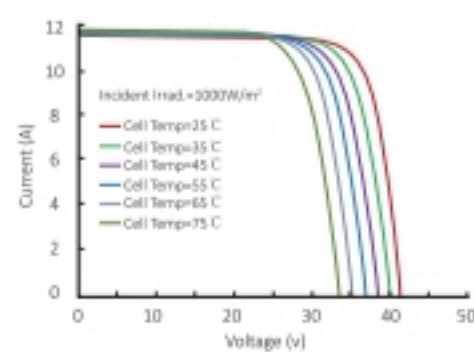
Temperature Coefficient of Isc	+0.048%/C
Temperature Coefficient of Voc	-0.270%/C
Temperature Coefficient of Pmax	-0.350%/C

Mechanical Loading

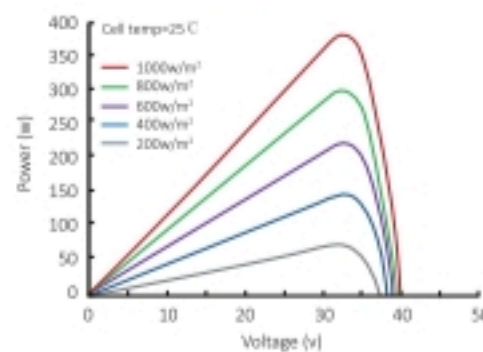
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

I-V Curve

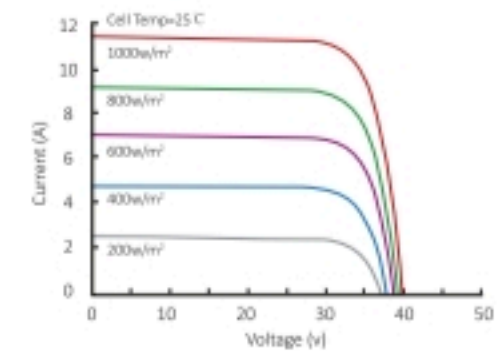
Current-Voltage Curve (LR4-60HPB-360M)



Power-Voltage Curve (LR4-60HPB-360M)



Current-Voltage Curve (LR4-60HPB-360M)



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