

# Harvest the Sunshine

# JA SOLAR

# 515W



## JAM60S40 LR n-type Monofacial Modules

### Premium Cells

n-  
Bycium+  
16BB

MBB Half-Cell  
Technology

# 26%



Cell Conversion  
Efficiency

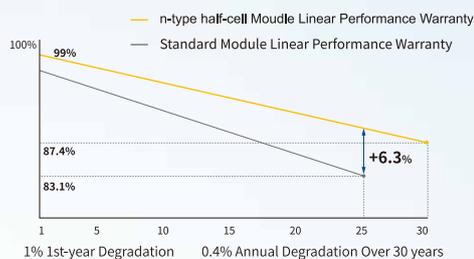
### Premium Modules

Higher power generation better LCOE

n-type with very Lower LID

Better Temperature Coefficient

Better low irradiance response



15-year product warranty

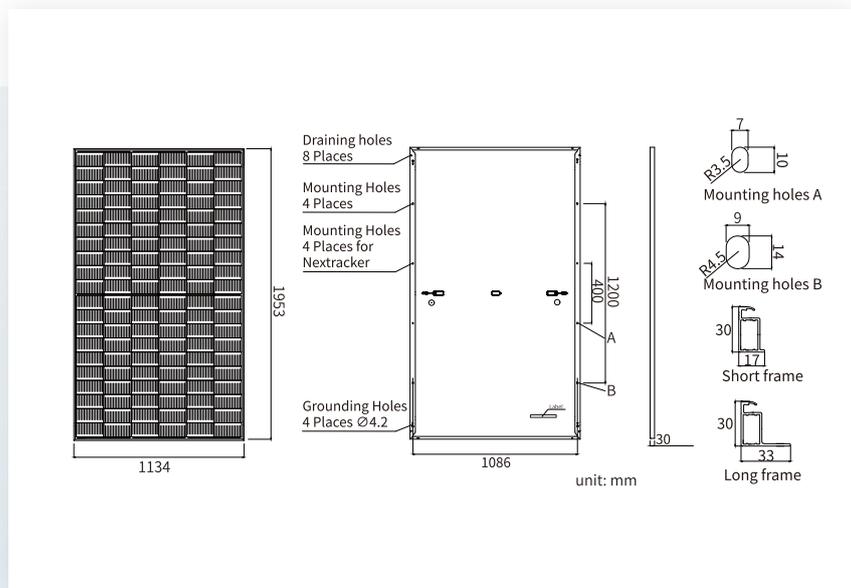
30-year linear power output warranty

### 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	24.3kg
Dimensions	1953mm × 1134mm × 30mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	120(6 × 20)
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	2.0mm/2.0mm
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

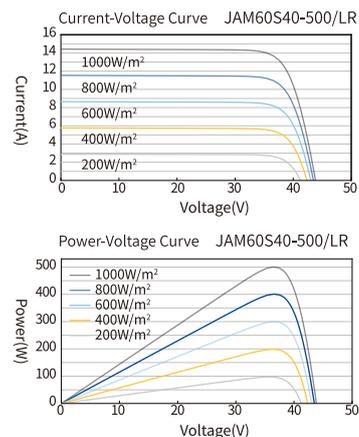
TYPE	JAM60S40 -490/LR	JAM60S40 -495/LR	JAM60S40 -500/LR	JAM60S40 -505/LR	JAM60S40 -510/LR	JAM60S40 -515/LR
Rated Maximum Power(Pmax) [W]	490	495	500	505	510	515
Open Circuit Voltage (Voc) [V]	43.45	43.65	43.85	44.05	44.25	44.45
Maximum Power Voltage(Vmp) [V]	36.49	36.70	36.91	37.11	37.31	37.51
Short Circuit Current(Isc) [A]	14.30	14.36	14.42	14.48	14.54	14.60
Maximum Power Current(Imp) [A]	13.43	13.49	13.55	13.61	13.67	13.73
Module Efficiency [%]	22.1	22.4	22.6	22.8	23.0	23.3
Power Selection	0~+3%					
Temperature Coefficient of Isc(α <sub>Isc</sub> )	+0.045%/°C					
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.250%/°C					
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.290%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , 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	JAM60S40 -490/LR	JAM60S40 -495/LR	JAM60S40 -500/LR	JAM60S40 -505/LR	JAM60S40 -510/LR	JAM60S40 -515/LR
Rated Max Power(Pmax) [W]	369	373	377	381	384	389
Open Circuit Voltage(Voc) [V]	40.90	41.10	41.30	41.50	41.60	41.90
Max Power Voltage(Vmp) [V]	33.90	34.10	34.20	34.40	34.60	34.80
Short Circuit Current(Isc) [A]	11.54	11.59	11.64	11.68	11.73	11.79
Max Power Current(Imp) [A]	10.90	10.95	11.00	11.05	11.11	11.16
NOCT	Irradiance 800W/m <sup>2</sup> , 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 <sup>2</sup> )
Maximum Static Load, Back	2400Pa(50 lb/ft <sup>2</sup> )
NOCT	45 ± 2°C
Safety Class	Class II
Fire Performance	Class C

\*PV module 98<sup>th</sup> percentile operating temperature : 70°C