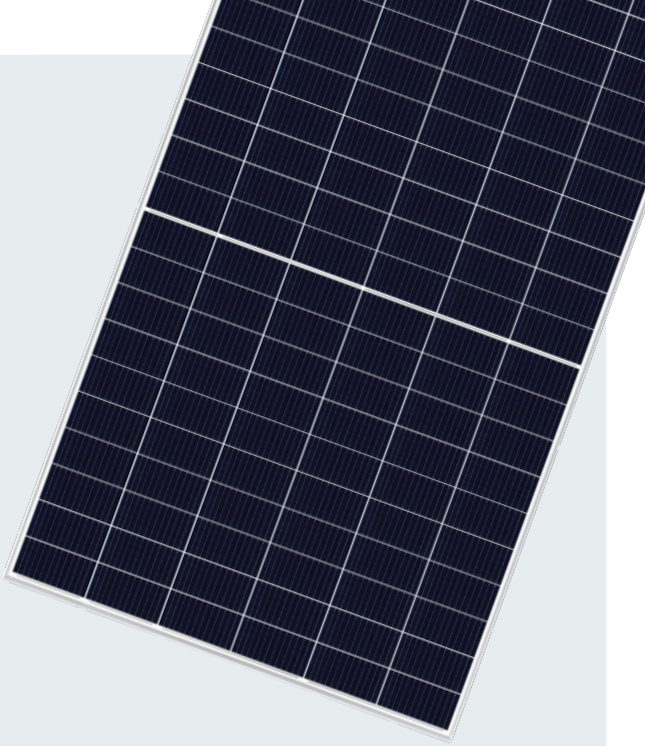


M12 SERIES

EM120HBG 580~600W

M12 SERIES

LDK redefined the high-efficiency module series by integrating 210 mm silicon wafers with multi-busbar and half-cut cell technologies. LDK module combined creative technology and extremely improved the module efficiency and power output.

KEY FEATURES

- 1500V — Higher system voltages can effectively reduce BOS
- Lower operating temperature and temperature perature coefficient,obtain higher profit
- Significantly reduce the effect of hot spot temperature and shadow shielding
- Half-cut design for better mechanical load performance
- Ease of use in more demanding environments

MANAGEMENT SYSTEM

ISO9001:2015
ISO14001:2015
ISO45001:2018

PRODUCT CERTIFICATION

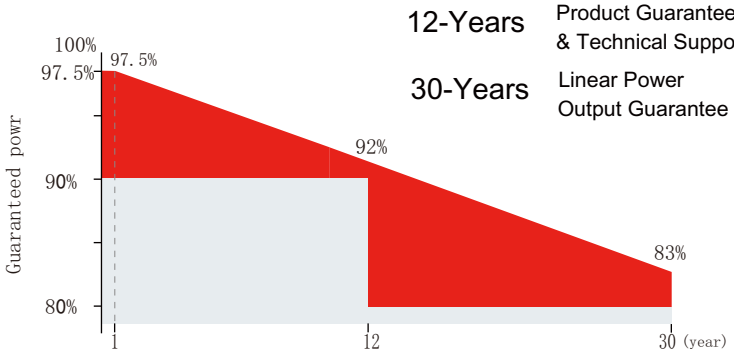
LDK is a leading manufacturer and service provider of professional PV cells and modules that can be widely utilized in residence, commerce and ground PV plant.

LDK provides PV products with exceptional power output and reliability by integrating rigorous design, advanced production technology and fully automatic production equipment. Strict quality control and test standards confirm its pursuit of high quality output.

WARRANTY

12-Years Product Guarantee & Technical Support

30-Years Linear Power Output Guarantee



XinYu LDK Power Supply Technology Co.,Ltd

ADD: No. 1950 SaiWei Avenue, High-Tech, Industrial Development Zone, XinYu City, JiangXi Province, P.R. CHINA

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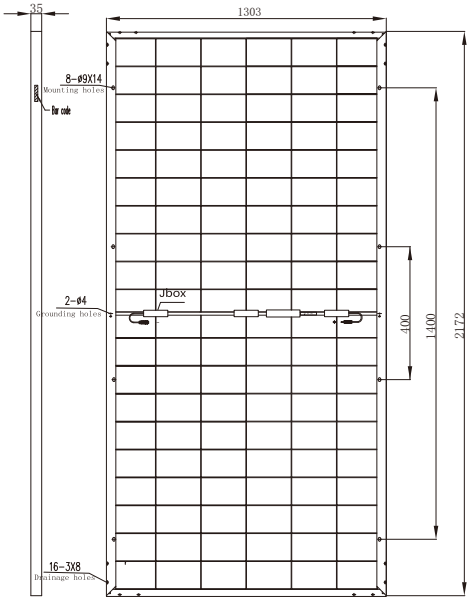
ELECTRICAL PARAMETERS@STC EM120HBG 580~600W

Max. Power Output Pmax	(W)	580	585	590	595	600
Power Tolerance		0~+3	0~+3	0~+3	0~+3	0~+3
Max. Power Voltage Vmp	(V)	33.94	34.12	34.32	34.50	34.70
Max. Power Current Imp	(A)	17.10	17.15	17.20	17.25	17.30
Open Circuit Voltage Voc	(V)	40.80	41.00	41.20	41.40	41.60
Short Circuit Current Isc	(A)	18.11	18.16	18.21	18.26	18.32
Module Efficiency	(%)	20.49	20.67	20.85	21.02	21.20
Refer.Bifacial Factor	%	70±5	70±5	70±5	70±5	70±5
5% Maximum Power	(Pmax)	609.0	614.3	619.5	624.8	630.0
5% Module Efficienycy	STC(%)	21.51	21.70	21.89	22..07	22.26
15% Maximum Power	(Pmax)	667.0	672.8	678.5	684.3	690.0
15% Module Efficienycy	STC(%)	23.56	23.77	23.98	24.17	24.38
25% Maximum Power	(Pmax)	725.0	731.3	737.5	743.8	750.0
25% Module Efficienycy	STC(%)	25.61	25.84	26.06	26.28	26.50

(Standard Test Condition)STC : Irradiance 1000W/m² , Module Temperature 25℃, AM 1.5 。



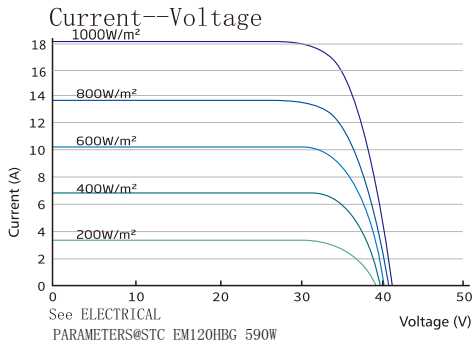
ELECTRICAL PARAMETERS@NMOT

Max. Power Output	Pmax (W)	440	443	447	451	455
Max. Power Voltage	Vmp (V)	31.47	31.67	31.84	31.96	32.15
Max. Power Current	Imp (A)	13.95	13.99	14.04	14.08	14.12
Open Circuit Voltage	Voc (V)	37.94	38.13	38.32	38.50	38.69
Short Circuit Current	Isc (A)	14.85	14.89	14.93	14.97	15.02

(Nominal Module Operating Temperature)NMOT: Irradiance 800W/ m², Ambient Temperature 20℃, AM 1.5 ,Wind Speed 1m/s。

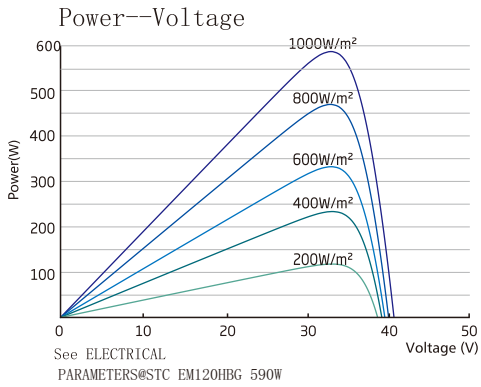
TEMPERATURE COEFFICIENTS

Temperature Coefficients of Pmax	-0.32%/℃
Temperature Coefficients of Voc	-0.26%/℃
Temperature Coefficients of Isc	+0.054%/℃



MECHANICAL PARAMETERS

Cell Type	Mono 210×105mm
Number of Cells	120pcs (2×(6×10))
Dimensions (L*W*H)	2172×1303×35mm
Weight	36kg
Frame	Anodized Aluminum
Junction Box	Ip68
Cable, Length	4mm²/350mm



OPERATING CONDITION

Maximum System Voltage(V)	1500(DC)
Operating Temperature(℃)	-40~+85
Max. Wind Load / Snow Load(Pa)	2400/5400
Max. Over Current(A)	25A
Application Class	ClassA
Fire Rating	ClassB
NMOT(℃)	42±3

*Power measurement tolerance: ±3%

*No notice when product specifications change

Dealer information

PACKAGE INFORMATION

Per Pallet	31PCS
Flat truck :13/17.5 min length	682/930PCS

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