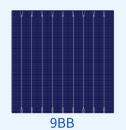


# 290-310 Watt **LS-P120**

# Half-Cell MBB POLY MODULE







## **KEY FEATURES**



### Multi Busbar Solar Cell

Stronger current collection ability, Special circuit design with much lower hot spot temperature;



### Module efficiency up to 18.66%

Half cell structure brings low resistance characteristic, higher lifetime generating capacity, simultaneously lower annual power attenuation;



### **PID Resistant**

Excellent PID resistance at 96 hours (85°C/85%) test, and also can be improved to meet higher standards for the particularly harsh environment;



### **Low-Light Performance**

Excellent power generation performance under Low-Light condition due to multi busbar; better shading response benefit from half cell module;



### Anti-Crack

Excellent anti-microcracking performance with more balanced interior stress;

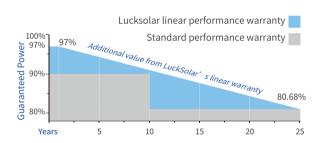


### Strength and Durability

Certified for 5400Pa snow and 2400Pa loads test;

# **Linear Performance Warranty**

12 Years Product Warranty · 25 Years Linear Power Warranty



# **Product And Quality Certifications**

ISO 9001:2008 ISO 14001:2004 OHSAS 18001:2007





















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Luck Solar is the world's leading green energy provider, committed to making clean energy illuminate every corner of the world. We strive to provide high-efficiency, high-quality and low-cost clean energy solutions. Luck Solar insists on continuous innovation around customer needs. We invest heavily in technology research, and promotes green energy in the world.







### **ELECTRICAL SPECIFICATIONS** LS-P120-290 Module Type LS-P120-295 LS-P120-300 LS-P120-305 LS-P120-310 **Testing Condition** STC NOCT STC NOCT STC NOCT STC NOCT NOCT STC Rated output (Pmp/Wp) 290 217.67 295 221.54 300 223.91 305 228.14 310 231.33 Rated voltage (Vmp/V) 32.78 29.9 33.23 30.1 31.52 29.5 31.88 29.90 32.3 30.20 Rated current (lmp/A) 8.85 7.28 8.88 7.36 9.52 7.59 9.57 7.63 9.60 7.66 Open circuit voltage (Voc/V) 39.0 36.4 39.2 36.6 38.68 36.10 38.95 36.30 39.27 36.60 Short circuit current (Isc/A) 9.67 7.80 9.78 7.89 10.00 8.09 10.03 8.11 10.06 8.13 Module efficiency (%) 18.05% 18.36% 18.66% 17.45% 17.75% Power Tolerance (W) 0~+5 0~+5 0~+5 0~+5 0~+5

Standard Test Condition(STC): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5 Nominal Operating Cell Temperature(NOCT): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s

# TEMPERATURE CHARACTERISTICS

NOCT Temperature	44°C ±2°C
Temprature Coefficient (Pmax)	-0.38%/°C
Temprature Coefficient (Voc)	-0.30%/°C
Temprature Coefficient (Isc)	0.05%/°C

# **MAXIMUM RATINGS**

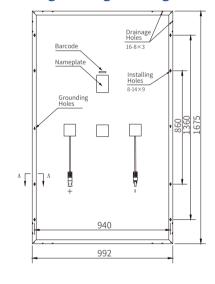
Maximum system voltage (IEC)	1500V DC
Snow/Wind	5400Pa/2400Pa
Operating Temperature	-40°C ~ +85°C
Maximum series fuse rating	20A

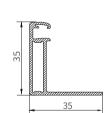
# **MECHANICAL SPECIFICATIONS**

Cell Type	12BB/9BB POLY 156.75×78.375mm
No. of Cells	120 (12×10)
Dimensions	1675×992×35mm
Weight	19.0kg
Glass	3.2mm, Low Iron Tempered Glass
Frame	Anodized Aluminium Alloy (silver or black)
Junction Box	IP67/IP68, 3 diodes
Output Cables	4mm², (+)300mm, (-) 300mm or Customized Length
Connector type	MC4 compatible

# **ENGINEERING DRAWINGS**

## **Engineering Drawings**



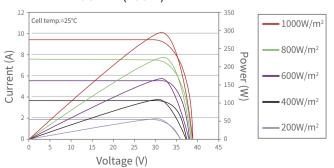


# **PACKING CONFIGURATIONS**

Per Pallet	30 Pcs
Per 20' GP Container	360 Pcs
Per 40' HQ Container	910 Pcs

# **CURVE & TEMPERATURE DEPENDENCE**

### I-V CURVE (295W)



### Current-Voltage curves (295W)

