



Mono-facial Half Cell Module

395-415W MLK-27

Key Product Features



High Conversion Efficiency

High efficiency Monocrystalline cell
Module efficiency up to 21.25%



Light Weight Design

Easy handling,
and saving in installation costs



Gallium-doped Technology

Reduce LID by Gallium-doped process
More power generation over the life cycle



Non-destructive Cutting

Application of advanced non-destructive cutting technology
Effectively reduce potential micro crack defects



Multi-Busbar Technology

Enhanced module current collection capability
Power output increased by 2.5%-3%



PID Resistant

Optimize cell production technology and material control
Enhance PID Resistant performance, and reduce degradation



High-Density Encapsulation Technology

Through narrowing the cell spacing,
the module efficiency is increased by 0.2%



Low LCOE(Levelized Cost of Energy)

The cost of BOS reduced by 1.48%
LCOE reduced by 1.27%

Comprehensive product certification

- IEC61215-1(ed.1)
- IEC61215-1-1(ed.1)
- IEC61215-2(ed.1)
- IEC61730-1(ed.2)
- IEC61730-2(ed.1)
- UL 61730-1 1st Edition
- UL 61730-2 1st Edition

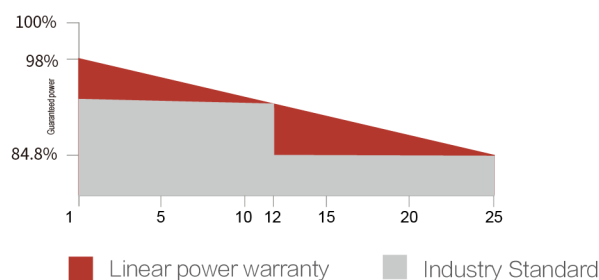


Industry-leading Quality Assurance

12year
Product warranty

25year
linear power warranty

-0.55%
Annual degradation



● Please refer to the warranty letter for details



Solar Power



● Add: No.3009 BYD Road, Pingshan District, Shenzhen
● +86-755-89888888
● bydpv@byd.com

Electrical Data(STC*)

Module Type: MLK-27	395	400	405	410	415
Rate Maximum Power(Pmax)(W)	395	400	405	410	415
Open Circuit Voltage(Voc) (V)	36.9	36.98	37.06	37.14	37.31
Short Circuit Current(Isc) (A)	13.71	13.78	13.85	13.92	14.01
Maximum Power Voltage(Vmp)(V)	30.32	30.42	30.52	30.62	30.72
Maximum Power Current (Imp) (A)	13.03	13.15	13.27	13.39	13.51
Module Efficiency (%)	20.23	20.48	20.74	21.00	21.25

*Standard Test Conditions (STC) : irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C

Electrical Data(NMOT*)

Module Type: MLK-27	395	400	405	410	415
Rate Maximum Power(Pmax)(W)	294.8	298.8	302.8	306.9	311.0
Open Circuit Voltage(Voc) (V)	34.5	34.6	34.7	34.7	34.9
Short Circuit Current(Isc) (A)	11.08	11.13	11.19	11.25	11.32
Maximum Power Voltage(Vmp)(V)	28.3	28.5	28.6	28.8	29.0
Maximum Power Current (Imp) (A)	10.42	10.50	10.58	10.66	10.74

*Nominal Module Operating Temperature (NMOT): irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

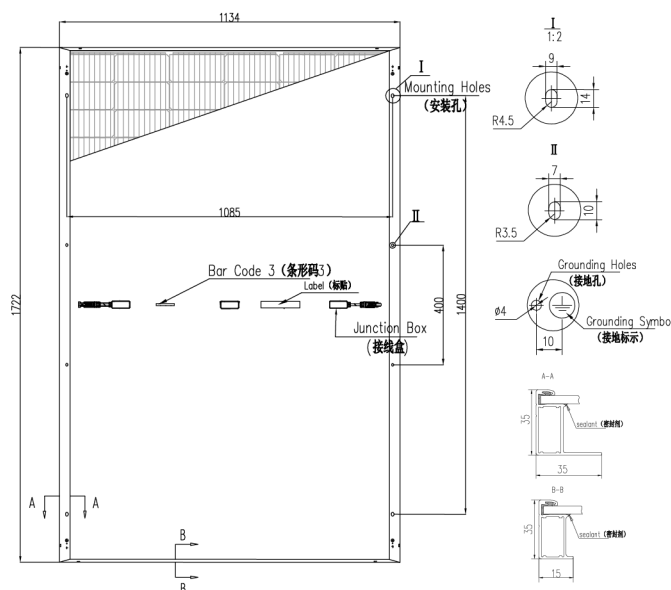
Operational Parameter

Operating Temperature	-40°C~+85°C
NMOT (Nominal Module Operating Temperature)	45°C±2°C
Maximum System Voltage(V)	1500 VDC
Maximun Fuse Current Rating(A)	25A
Fire Safety	Class C
Power Tolerance	0~+5W

Mechanical Properties

Cell Type	182*91mm
Number of Cells	108
Dimension of Module	1722*1134*35mm
Weight	20.6kg ± 5%
Front Glass	3.2mm tempered glass with AR Coating
Frame	Anodized aluminum alloy
Junction Box	IP68(3 Diodes)
Cable Length	+320mm , -260mm(4.0mm ²) ; or Customized Length
Packing Information	806(31*26)pcs per 40'HQ

Drawing

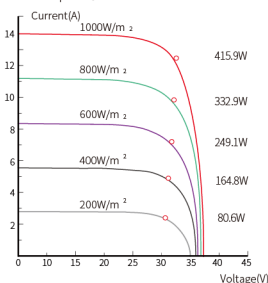


Temperature Coefficient

Peak Power Temperature Coefficient	-0.328%/°C
Open-Circuit Voltage Temperature Coefficient	-0.254%/°C
Short-Circuit Current Temperature Coefficient	0.0499%/°C

I-V curve

Current-Voltage Curve (415W)
Cells temp.:25°C



Power-Voltage Curve (415W)
Cells temp.:25°C

