



Mono-facial Half Cell Module

530-555W **MLK-36**

Key Product Features



High power output

Using 182mm size Mono wafer
Module power output up to 21.48%



Gallium-doped Technology

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



Multi-Busbar Technology

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



High-Density Encapsulation Technology

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



Unique model

Unique design reduces shadow occlusion
Decrease power loss and increase power generation



Low temperature coefficient

Peak power temperature coefficient -0.328%/°C
Excellent power generation in high temperature environment



Higher mechanical load capacity

Adopt high-strength aluminum alloy frame
Mechanical performance up to 5400 Pa positive
load and 2400 Pa negative load



Low LCOE (Levelized Cost of Energy)

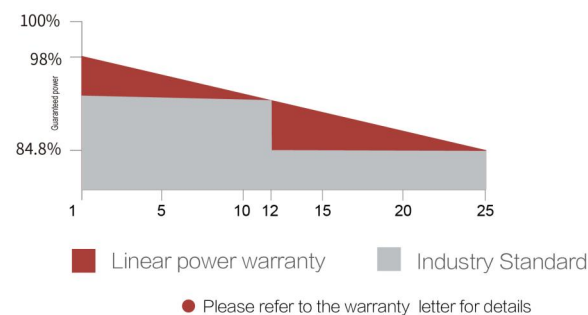
The cost of BOS reduced by 1.48%
LCOE reduced by 1.27%

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



AURO

MLK-36 530-555W

Electrical Data(STC*)

Module Type: MLK-36	530	535	540	545	550	555
Rate Maximum Power(Pmax)(W)	530	535	540	545	550	555
Open Circuit Voltage(Voc) (V)	49.12	49.42	49.72	50.02	50.32	50.62
Short Circuit Current(Isc) (A)	13.45	13.49	13.53	13.57	13.61	13.65
Maximum Power Voltage(Vmp)(V)	41.61	41.83	42.05	42.27	42.49	42.71
Maximum Power Current (Imp) (A)	12.74	12.79	12.84	12.89	12.94	12.99
Module Efficiency (%)	20.52	20.71	20.90	21.10	21.29	21.48

*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-36	530	535	540	545	550	555
Rate Maximum Power(Pmax)(W)	394.8	398.4	402	405.7	409.3	413.0
Open Circuit Voltage(Voc) (V)	45.9	46.2	46.5	46.7	47.0	47.3
Short Circuit Current(Isc) (A)	10.87	10.90	10.93	10.96	11.00	11.03
Maximum Power Voltage(Vmp)(V)	38.4	38.7	38.9	39.2	39.4	39.6
Maximum Power Current (Imp) (A)	10.27	10.30	10.33	10.36	10.39	10.42

*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

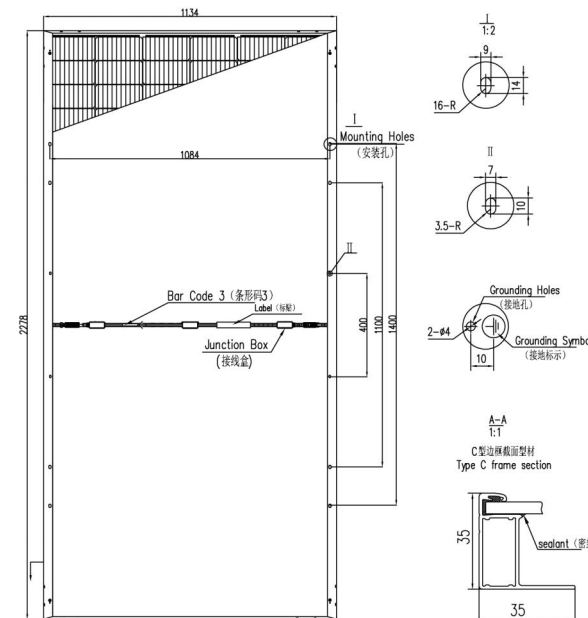
Mechanical Properties

Cell Type	182mm*91mm
Number of Cells	144
Dimension of Module	2278*1134*35mm
Weight	27kg ± 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	620(31*20)pcs per 40'HQ

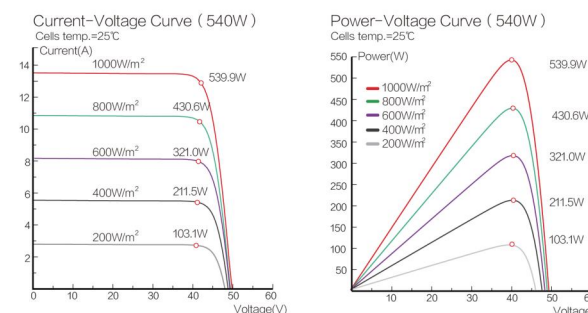
Temperature Coefficient

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

Drawing



I-V curve



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



Declaration:With the technical progress and product updates,there exists a deviation between the technical parameter of the BYD Solar's future products and the technical parameter in this specification.The BYD Solar reserves the right to adjust the technical parameter at any time without notifying the customers, BYD Solar reserves the final right of interpretation.
(V202210A)