

# MLTK-36

530-555W

## Mono Bifacial Half Cell Module

### Key Product Features



#### Higher Output Power

Module power up to 555W  
Average cell efficiency up to 22.6%



#### Reliability for output performance

Positive power tolerance 0-5W,  
reliable output performance  
Excellent optical performance



#### Lower LCOE

(Levelized Cost Of Energy)

Significantly decrease BOS costs and  
operation and maintenance costs



#### Superior adaptability

3600 Pa for positive (downward) and  
1600 Pa for negative (upward)  
Safety factors  $\gamma_m$ :1.5  
Corresponding to maximum snow and ice  
load 5400Pa, maximum wind load 2400Pa

### 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 1<sup>st</sup> Edition
- UL 61730-2 1<sup>st</sup> Edition

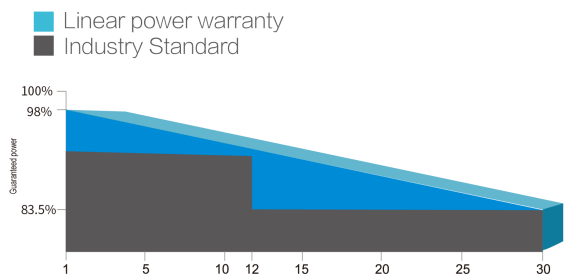


### Industry-leading Quality Assurance

12 year  
Product warranty

30 year  
linear power warranty

-0.50%  
Annual degradation



• Please refer to the warranty letter for details



Solar Power



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## Electrical Data(STC\*)

Module Type: MLTK-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/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

## Electrical Data(NMOT\*)

Module Type: MLTK-36	530	535	540	545	550	555
Rate Maximum Power(Pmax)(W)	395.3	398.9	402.5	406.2	409.8	413.5
Open Circuit Voltage(Voc) (V)	45.9	46.2	46.5	46.7	47.0	47.3
Short Circuit Current(Isc) (A)	10.87	10.9	10.93	10.96	11.00	11.03
Maximum Power Voltage(Vmp)(V)	38.4	38.6	38.9	39.1	39.4	39.6
Maximum Power Current (Imp) (A)	10.29	10.32	10.35	10.38	10.41	10.44

\* Nominal Module Operating Temperature (NMOT): irradiance of 800 W/m<sup>2</sup>, 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)				
Maximum Fuse Current Rating(A)	25A				
Fire Safety	Class C				
Power Tolerance	0~+5W				
Bifacial Factor	65±5%				
PG. 530W	5%	10%	15%	20%	25%
Rate Maximum Power(Pmax)(W)	557	583	610	636	663
Open Circuit Voltage(Voc) (V)	49.12	49.12	49.12	49.12	49.12
Short Circuit Current (Isc) (A)	14.12	14.80	15.47	16.14	16.81
Maximum Power Voltage(Vmp)(V)	41.61	41.61	41.61	41.61	41.61
Maximum Power Current(Imp) (A)	13.377	14.014	14.651	15.288	15.925

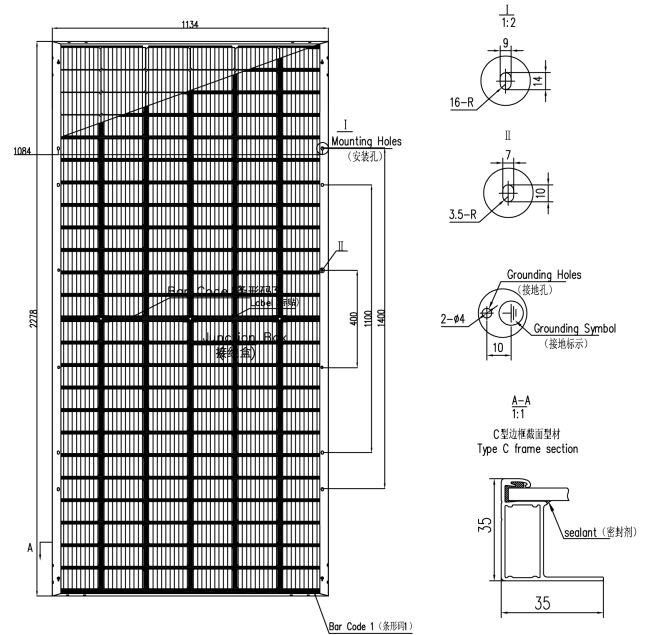
## Mechanical Properties

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 <sup>2</sup> ); or Customized Length				
Packing Information	620(31*20)pcs per 40'HQ				

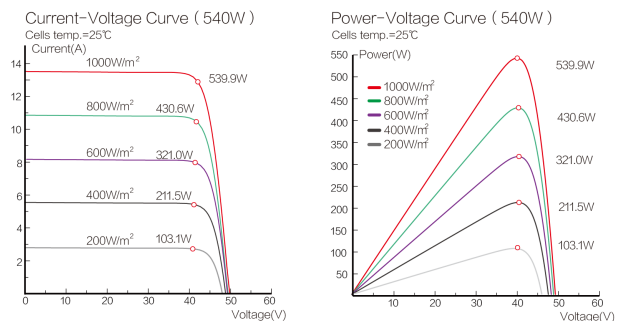
## Temperature Coefficient

Peak Power Temperature Coefficient	-0.331%/°C
Open-Circuit Voltage Temperature Coefficient	-0.253%/°C
Short-Circuit Current Temperature Coefficient	0.0502%/°C

## Drawing



## I-V curve



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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. (V202207B)