



# RUNZE

## RZ-170M-36

### 160/170/180

High Efficiency Cell PERC Monocrystalline Solar Module  
36-Cell Series

#### KEY FEATURES



**Half-cut cell technology**  
New circuit design, lower internal current, lower Rs loss



**No power loss thanks to improved temperature co-efficient**  
caused by 5 busbar solar cell



**Strictly control the micro-crack of solar cells and the other**  
non visible defect of internal modules



**Module can bear snow loads up to 5400Pa**  
and wind loads up to 2400Pa



**Manufactured according to and certified international I Quality**  
and Environment Management System



**Using advanced low reflection and high light**  
transmission glass and cell sheet surface cutting  
technology, in the weak light



#### SYSTEM&PRODUCT CERTIFICATES

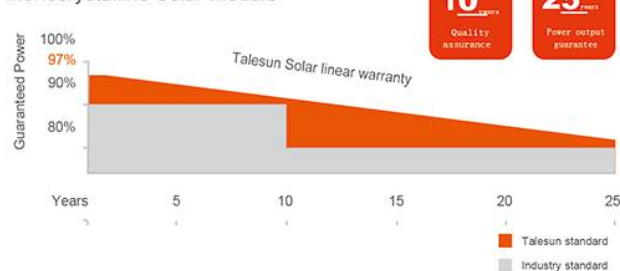
- IEC 61215 / IEC 61730
- ISO 9001 : 2015 Quality Management System
- ISO 14001 : 2015 Environment Mangement System
- OHSAS 18001: 2007 Occupational Health and Safety Management Systems



#### QUALITY WARRANTY

DEZHOU RUNZE NEW ENERGY TECHNOLOGY CO.,LTD that defects will not appear in materials and workmanship defined by IEC61215, IEC61730 or UL1703 under normal installation, use and maintenance as specified in RUNZE installation manual for 10 years from the warranty starting date.

Monocrystalline Solar Module



## ELECTRICAL PARAMETERS

### Performance at STC (Power Tolerance 0 ~+5W)

Maximum Power(P <sub>max</sub> /W)	160	170	180
Operating Voltage(V <sub>mpp</sub> /V)	18.2	18.6	19.0
Operating Current(I <sub>mpp</sub> /A)	9.23	9.30	9.39
Open-Circuit Voltage(V <sub>oc</sub> /V)	23.1	23.4	23.9
Short-Circuit Current(I <sub>sc</sub> /A)	9.3	9.58	9.88
Module Efficiency η <sub>m</sub> (%)	16	17	18

### Performance at NMOT

Maximum Power(P <sub>max</sub> /W)	120	130	140
Operating Voltage(V <sub>mpp</sub> /V)	16.9	17.2	17.6
Operating Current(I <sub>mpp</sub> /A)	7.11	7.39	7.66
Open-Circuit Voltage(V <sub>oc</sub> /V)	20.5	21.0	21.5
Short-Circuit Current(I <sub>sc</sub> /A)	7.44	7.73	8.02

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5

NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

Cell Type	Mono-Crystalline Silicon(5Busbar)
Cell Dimensions	156.75×156.75mm(6inches)
Cell Arrangement	36(4*9)
Weight	11.5kg
Module Dimensions	1480×680×35mm
Cable Length	900mm
Cable Cross Section Size	4mm <sup>2</sup>
Front Glass	3.2mm High Transmission, Tempered Glass
No. of Bypass Diodes	2/4
Packing Configuration (1)	2pcs/Pallet,1080pcs/40hq
Packing Configuration (2)	
Frame	Anodized Aluminium Alloy
Junction Box	IP68

Maximum System Voltage	1000V/DC(IEC)/1500V/DC(IEC)
Operating Temp	-40°C~+85°C
Maximum Series Fuse	15A
Static Loading	5400Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	II
Resistance	≥ 100MΩ
Connector	MC4 Compatible

Temperature Coefficient P <sub>max</sub>	-0.36%/°C
Temperature Coefficient V <sub>oc</sub>	-0.29%/°C
Temperature Coefficient I <sub>sc</sub>	+0.051%/°C
NMOT	42±2°C

