



## RUNZE half-cut RZ-H400M-72 385/390/395/400/405/410W

High Efficiency Half-Cell PERC Monocrystalline Solar Module  
72-Cell Series

### KEY FEATURES

-  **Half-cut cell technology**  
New circuit design, lower internal current, lower Rs loss
-  **Maximize limited space**  
More internal reflection, maximum power output 410W
-  **Significantly lower the risk of hot spot**  
Special circuit design with much lower hot spot temperature
-  **Lower LCOE**  
2% MORE POWER GENERATION, LOWER LCOE
-  **Excellent Anti-PID performance**  
2 times of industry standard Anti-PID test by TUV SUD
-  **Highly reliable due to stringent quality control**  
In-house testing goes well beyond certification requirements
-  **Certified to withstand the most challenging environmental conditions**  
2400 Pa wind load · 5400 Pa snow load · 25 mm hail stones at 82 km/h
-  **IP68 junction box**  
The highest waterproof level

### 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(Pmax/W)	385	390	395	400	405	410
Operating Voltage(Vmpp/V)	39.9	40.2	40.5	40.8	41.3	41.6
Operating Current(Imp/A)	9.65	9.70	9.75	9.80	9.81	9.86
Open-Circuit Voltage(Voc/V)	48.6	49.0	49.3	49.7	50.3	50.7
Short-Circuit Current(Isc/A)	10.09	10.15	10.20	10.25	10.26	10.31
Module Efficiency ηm(%)	19.1	19.3	19.6	19.8	20.1	20.3
Performance at NMOT						
Maximum Power(Pmax/W)	287	290	294	298	302	305
Operating Voltage(Vmpp/V)	37.0	37.3	37.5	37.8	38.3	38.6
Operating Current(Imp/A)	7.79	7.84	7.88	7.93	7.91	7.96
Open-Circuit Voltage(Voc/V)	45.1	45.4	45.7	46.1	46.6	47.0
Short-Circuit Current(Isc/A)	8.14	8.20	8.25	8.30	8.28	8.33
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	158.75×158.75mm(6inches)
Cell Arrangement	144(6*24)
Weight	22.5kg
Module Dimensions	2008×1002×40mm
Cable Length	300mm
Cable Cross Section Size	4mm <sup>2</sup>
Front Glass	3.2mm High Transmission, Tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration (1)	26pcs/Pallet,572pcs/40hq
Packing Configuration (2)	26pcs+4pcs/Pallet,616pcs/40hq
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	20A
Static Loading	5400Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	II
Resistance	≥ 100MΩ
Connector	MC4 Compatible
Temperature Coefficient Pmax	-0.36%/°C
Temperature Coefficient Voc	-0.29%/°C
Temperature Coefficient Isc	+0.051%/°C
NMOT	42±2°C

