

# UZON <sup>355~380W</sup>

Mono Half Cell Module 166 Series

Full Black UZ166MBHC355~370-60

Classic UZ166MHC370~380-60



**25** 25-year Warranty for Extra Linear Power Output

**12** 12-year Warranty for Materials and Processing  
(1<sup>st</sup> year ≤ 2.0%, 2<sup>nd</sup>~25<sup>th</sup> years ≤ 0.55% / year)

## COMPREHENSIVE CERTIFICATES

IEC61215/IEC61730/IEC61701/IEC62716  
 ISO9001:Quality Management System  
 ISO14001:Environmental Management System  
 ISO45001:Occupational Health and Safety Management System



## FEATURES



### OUTPUT POSITIVE TOLERANCE

Guaranteed 0~+5W positive tolerance ensures power output reliability.



### INNOVATIONAL HALF-CELL TECHNOLOGY

Improves the module output, decreases the risk of micro-crack, enhances the module reliability.



### INNOVATIVE PERC CELL TECHNOLOGY

Excellent cell efficiency and output.



### REDUCE SHADOW LOSS

Effectively reduces the effect of shadow on the module surface.



### REDUCE INTERNAL MISMATCH LOSS

Reduces mismatch loss and improves output.



### PASSED HAIL TEST

Certified to hail resistance: ice ball size (d=25mm) and ice ball velocity



### PID RESISTANCE

Excellent PID resistance at 96 hours (@85 C /85%) test, and also can be improved to meet higher standards for the particularly harsh environment.

## ELECTRICAL SPECIFICATIONS

STC rated output ( $P_{mpp}$ )*	355 Wp	360 Wp	365 Wp	370 Wp	375 Wp	380 Wp
Rated voltage ( $V_{mpp}$ ) at STC	33.24 V	33.49 V	33.73 V	33.98 V	34.28 V	34.51 V
Rated current ( $I_{mpp}$ ) at STC	10.68 A	10.75 A	10.82 A	10.89 A	10.94 A	11.01 A
Open circuit voltage ( $V_{oc}$ ) at STC	39.80 V	40.14 V	40.41 V	40.75 V	41.05 V	41.34 V
Short circuit current ( $I_{sc}$ ) at STC	11.15 A	11.21 A	11.29 A	11.35 A	11.42 A	11.49 A
Module efficiency	19.2%	19.5%	19.7%	20.0%	20.3%	20.5%
Rated output ( $P_{mpp}$ ) at NMOT	264.7 Wp	268.5 Wp	272.2 Wp	275.9 Wp	279.6 Wp	283.4 Wp
Rated voltage ( $V_{mpp}$ ) at NMOT	30.99 V	31.22 V	31.45 V	31.68 V	31.96 V	32.18 V
Rated current ( $I_{mpp}$ ) at NMOT	8.54 A	8.60 A	8.65 A	8.71 A	8.75 A	8.81 A
Open circuit voltage ( $V_{oc}$ ) at NMOT	37.42 V	37.74 V	37.99 V	38.31 V	38.59 V	38.87 V
Short circuit current ( $I_{sc}$ ) at NMOT	8.97 A	9.02 A	9.08 A	9.13 A	9.19 A	9.24 A
Temperature coefficient ( $P_{mpp}$ )	- 0.34%/°C					
Temperature coefficient ( $I_{sc}$ )	+0.04%/°C					
Temperature coefficient ( $V_{oc}$ )	- 0.27%/°C					
Nominal module operating temperature (NMOT)	44±2°C					
Maximum system voltage (IEC/UL)	1000V <sub>DC</sub> /1500V <sub>DC</sub>					
Number of diodes	3					
Junction box IP rating	IP 68					
Maximum series fuse rating	20 A					

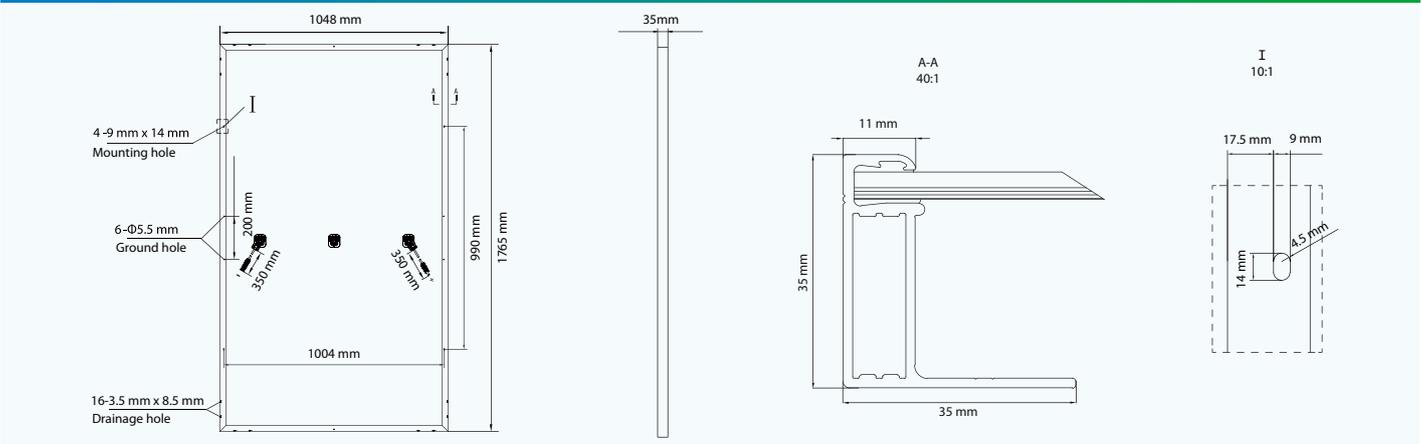
STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

## MECHANICAL SPECIFICATIONS

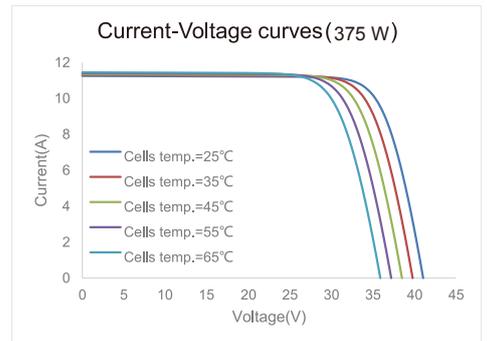
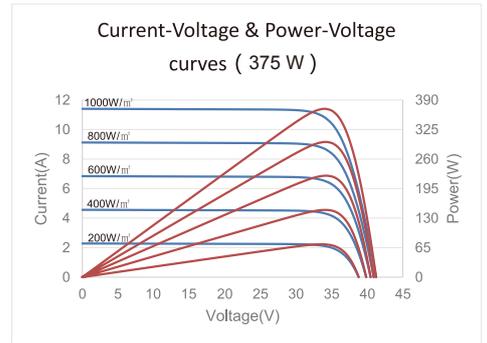
Outer dimensions (L x W x H)	1765 x 1048 x 35 mm
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet
Front glass thickness	3.2 mm
Cable length (IEC/UL)	Portrait: 350 mm Landscape: 1200 mm
Cable diameter (IEC/UL)	4 mm <sup>2</sup> / 12 AWG
Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Fire performance (IEC/UL)	Class C (IEC) or Type 1 (UL)
Connector type (IEC/UL)	MC4 compatible

## MODULE DIMENSION DETAILS



Note: These parameters for reference only and it is not a part of the contracts. The specifications are subject to change without prior notice.

## CURVE



## PACKING SPECIFICATIONS

Module Weight	20.0 kg
Packing unit	31 pcs /pallet
Weight of packing unit	661 kg
Container Loading	858 pcs/ 40HQ