

# Half-Cell High Efficiency PV Module

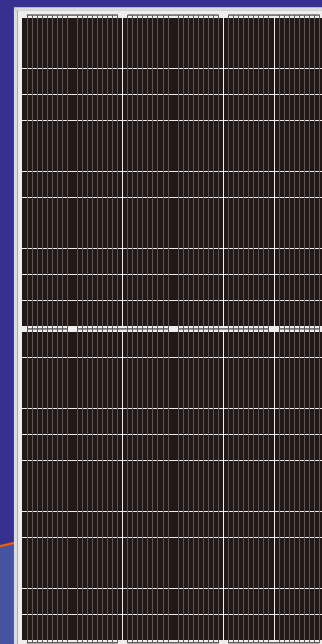
**9BB**



# 158.75<sup>mm</sup>

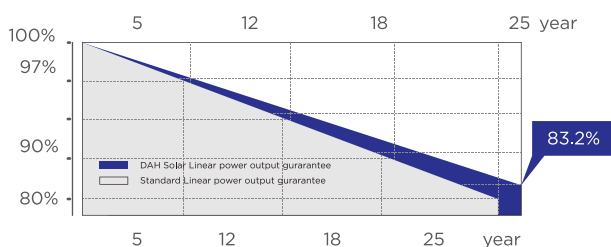
# HCM72X9

395W-410W



## QUALITY GUARANTEE

### LINEAR POWER OUTPUT GUARANTEE









**10 years** 10-year material & technology warranty

**25 years** 25-year linear power output warranty

**0~+5W**  
Positive Tolerance

**20.36%**  
Max Module Eff.(%)

## PRODUCT PERFORMANCE ADVANTAGE

-  Excellent space utilization performance, increasing power density effectively and reducing costs
-  Reducing the temperature of the solar module hot spot battery above 20°C , to ensure system stability and reliability
-  Larger Size of Light Receiving Area, Higher Solar Panel Power, Lower System Cost
-  Lower temperature coefficient, zero depth reflection increasing
-  More Busbars, the Less of Broken and cracking , As the Narrowed Cell Bus Bar Width,the Light Receiving Area and Power are Increased too
-  Reducing the loss of current mismatch and resistance



Top runner of smart solar system

**Factory Address:** No.358 Tianhe Road, Luyang Industrial Park, Hefei City, Anhui, China

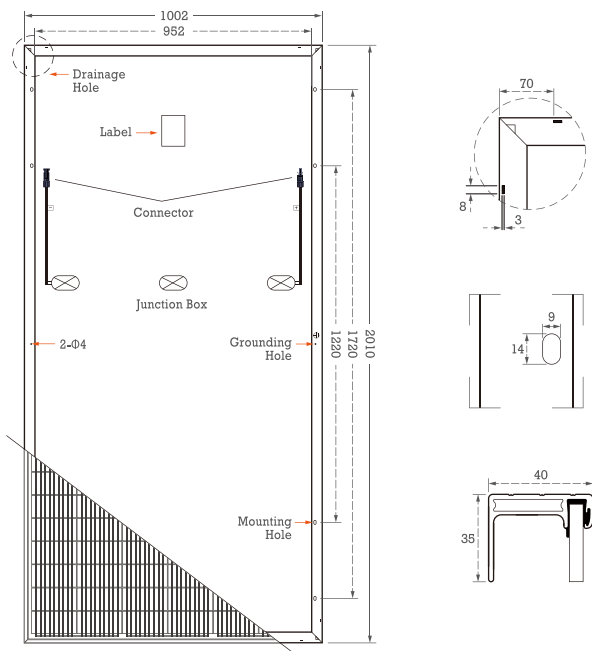
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# Half-Cell High Efficiency PV Module

## HCM72X9 395W-410W

### Design



### Mechanical Specification

Cells Type	Mono 158.75×79.375mm
Weight	23kg
Dimension (L×W×T)	2010×1002×40mm
Cable	4.0mm <sup>2</sup> ; Portrait: N 400mm /P 300mm, Landscape: N 1400mm /P 1400mm
No.of Cells	144 (6×24)
Glass	3.2 mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	QC4 or MC4 Compatible
Packing	27pcs/pallet, 270pcs/20GP, 638pcs/40HQ

### Operating Parameters

Maximum system voltage	1000V/1500V DC
Operating Temperature	-40 ~ +85℃
Maximum series fuse rating	20A
Snow load, frontside	5400Pa
Wind load, backside	2400Pa
Nominal operating cell temperature	45℃±2℃
Application level	Class A

### Electrical Characteristics(STC)

Module Type	HCM72X9-395W	HCM72X9-400W	HCM72X9-405W	HCM72X9-410W
Maximum Power (Pmax)	395W	400W	405W	410W
Open-circuit Voltage (Voc)	49.4V	49.6V	49.8V	50.0V
Maximum Power Voltage (Vmp)	41.5V	41.8V	42.1V	42.3V
Short-circuit Current (Isc)	10.12A	10.16A	10.21A	10.25A
Maximum Power Current (Imp)	9.52A	9.57A	9.62A	9.70A
Module Efficiency (%)	19.62%	19.87%	20.11%	20.36%
Power Tolerance	0~+5W			
Temperature Coefficient of Isc	0.05%/℃			
Temperature Coefficient of Voc	-0.29%/℃			
Temperature Coefficient of Pmax	-0.37%/℃			
Standard Test Environment	Irradiance 1000w/m <sup>2</sup> , Cell temperature 25℃, Spectrum AM1.5			

### Electrical Characteristics(NOCT)

Module Type	HCM72X9-395W	HCM72X9-400W	HCM72X9-405W	HCM72X9-410W
Maximum Power (Pmax)	298W	302W	305W	309W
Open-circuit Voltage (Voc)	47.1V	47.3V	47.5V	47.7V
Maximum Power Voltage (Vmp)	39.3V	39.6V	39.9V	40.2V
Short-circuit Current (Isc)	8.16A	8.19A	8.23A	8.27A
Maximum Power Current (Imp)	7.57A	7.62A	7.65A	7.69A
Standard Test Environment	Irradiance 800w/m <sup>2</sup> , Cell temperature 20℃, Spectrum AM1.5, Wind speed 1m/s			