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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Anhui Daheng Energy Technology Co., Ltd.**

**HCP78X9 395-400W**

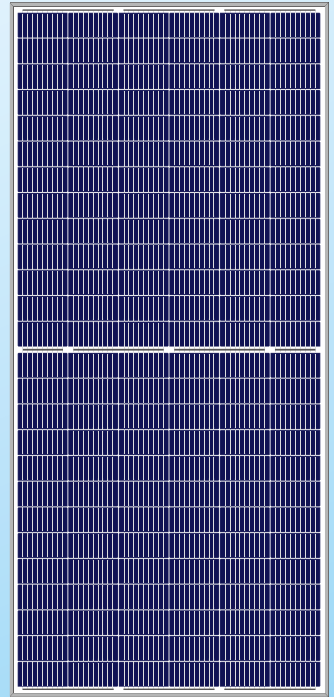
**HCP78X9-400W**

Also available on the web at

[EnergyPal.com/anhui-daheng-energy-technology-co-ltd-solar-panels/hcp78x9-400w](http://EnergyPal.com/anhui-daheng-energy-technology-co-ltd-solar-panels/hcp78x9-400w)

**poly** HCP78X9  
**395~400W**

**Half-Cell  
 High Efficiency  
 PV Module**



**HIGH EFF.**

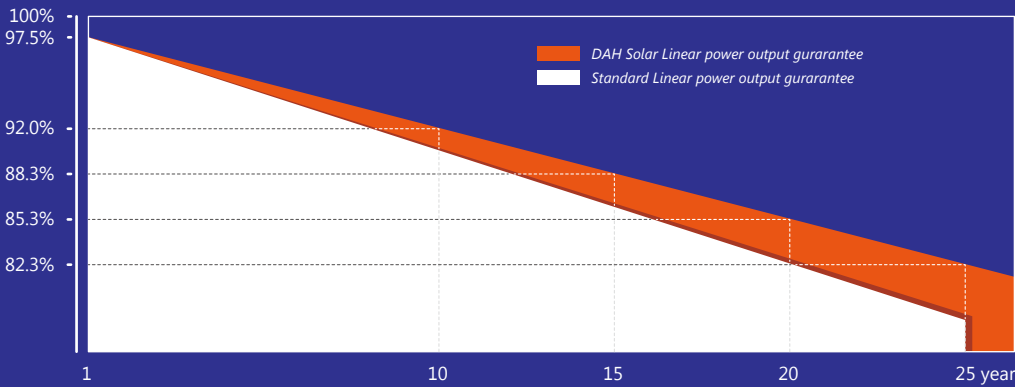


**HALF CELL**



**Quality Guarantee**

12-year material & technology warranty  
 25-year linear power output warranty



**18.38%**

Max Module Eff.

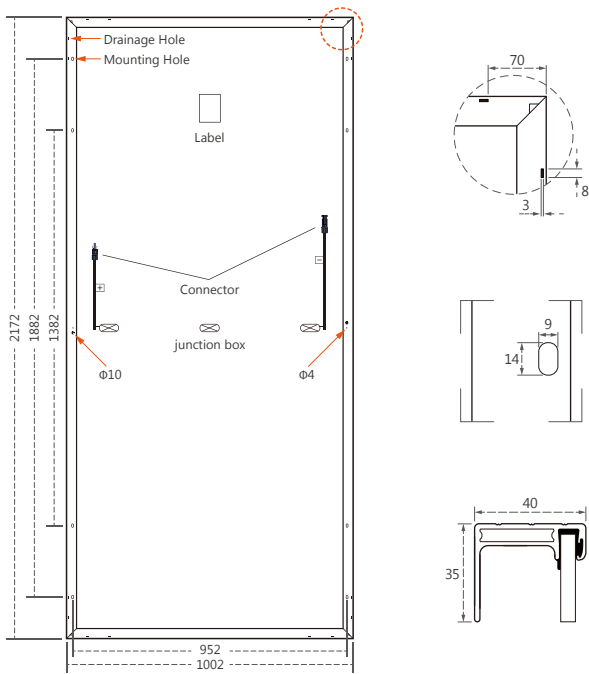
**0~+5W**

Positive Tolerance

**Performance Advantage**

- > More Busbars, the Less of Broken and cracking, As the Narrowed Cell Bus Bar Width, the Light Receiving Area and Power are Increased too.
- > Half-Cell technology and back passivation technology, excellent photoelectric conversion efficiency.
- > Excellent low-light power generation performance, even if it is half blocked, there is still 50% power output.
- > Series-parallel combined circuit design, higher output power than conventional PERC.

## Design



## Mechanical Specification

Cells Type	Poly 158.75×79.375mm
Weight	24.8kg
Dimension (L×W×T)	2172*1002*40mm
Cable	4.0mm <sup>2</sup> ; Portrait: N 400mm/P 300mm, (Cable length can be customized)
No.of Cells	156 (6×26)
Glass	3.2 mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	QC4 or MC4 Compatible
Packing	27pcs/pallet, 270pcs/20GP, 580pcs/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	HCP78X9-395W	HCP78X9-400W
Maximum Power (Pmax)	395W	400W
Open-circuit Voltage (Voc)	51.3V	51.6V
Maximum Power Voltage (Vmp)	41.8V	42.0V
Short-circuit Current (Isc)	9.87A	9.95A
Maximum Power Current (Imp)	9.45A	9.53A
Module Efficiency (%)	18.15%	18.38%
Power Tolerance	0~+5W	
Temperature Coefficient of Isc	0.05%/℃	
Temperature Coefficient of Voc	-0.31%/℃	
Temperature Coefficient of Pmax	-0.38%/℃	
Standard Test Environment	Irradiance 1000w/m <sup>2</sup> , Cell temperature 25℃, Spectrum AM1.5	

## Electrical Characteristics(NOCT)

Module Type	HCP78X9-395W	HCP78X9-400W
Maximum Power (Pmax)	298W	302W
Open-circuit Voltage (Voc)	48.3V	48.5V
Maximum Power Voltage (Vmp)	39.5V	39.7V
Short-circuit Current (Isc)	8.03A	8.11A
Maximum Power Current (Imp)	7.55A	7.61A
Standard Test Environment	Irradiance 800w/m <sup>2</sup> , Cell temperature 20℃, Spectrum AM1.5, Wind speed 1m/s	